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Keyword Thesaurus. A List of Terms and Codes to Identify Areas of Interest for Research and Other Types of Sponsored Programs. Keyword Thesaurus Project Update for New Participants.

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This list of program types and keywords (with codes) was prepared for program officers at the National Endowment for the Humanities, the National Institute of Education, and the National Science Foundation to use when preparing program announcements and requests for proposals. Staff persons responsible for screening such documents at colleges and universities may then use the codes to identify which of the faculty at their institutions should be notified. Twenty-four program types are listed for coding funding announcements or solicitations to indicate the type of activity which may be supported. A Keywords Categorical List includes geographic terms which may either be the subject of research or a project location. The remaining keywords are divided into nine broad categories representing major classifications: (1) agriculture/food sciences/food; (2) arts/humanities/cultural activities; (3) behavioral/social sciences; (4) education; (5) engineering; (6) health and safety; (7) law; (8) management/commerce; and (9) science and technology/mathematics/computer science. An "other" category includes fire/flammability studies, military science/military history/peace/amnesty, recreation and leisure studies, and university/industry cooperative activities. Instructions for assigning terms are included. More than 100 colleges and universities participated in this experimental thesaurus project in 1982-83. Project newsletters, an update for new participants, and an evaluation questionnaire sent to participants along with this version of the thesaurus are attached. (LMM)

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John A. Rodman
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INTRODUCTION

OVERVIEW

The National Endowment for the Humanities, the National Science Foundation, and the National Institute of Education, together with over a hundred colleges and universities, are participating in this experimental Keyword Thesaurus project in 1982-83. Representatives of those government agencies, along with research administrators and faculty from half a dozen universities across the United States, have compiled the list of Program Types and Keywords which begins on page 4. Program officers at NEH, NIE, and NSF will use this coded list when preparing program announcements and RFP's, placing the appropriate Program Type codes and Keyword codes at the beginning of each announcement or solicitation. At colleges and universities across the country, the staff persons responsible for screening such documents may then use the codes to identify which of the faculty at their institutions should be notified. (It is assumed that participating institutions will encourage their faculty to choose as early as possible which Keyword codes best represent their interests. This information may be maintained on a card file, a word processor, or a computer. It is suggested that the entire Thesaurus be available for the faculty's use, since terms of interest may appear in sections which are outside the strict limits of an academic discipline.)

OBJECTIVES

It is hoped that use of this Keyword Thesaurus will bring about greater accuracy in matching the focus of announcements with the research interests of the faculty, time savings of staff in the resource identification process, more timely notification of the faculty, and improved relationships with the faculty. Precise classification of announcements, and an efficient matching system, allowing notification of and response by the most interested and qualified professors, will enhance the effective use of time and energy within the research community as well as within the government agencies. If the experiment proves successful, it is possible that the Thesaurus will be implemented by all federal agencies.

DEFINITIONS

PROGRAM TYPES, coded to funding announcements or solicitations, indicate the types of activity which may be supported.

KEYWORDS--CATEGORICAL LIST:

GEOGRAPHIC TERMS: This is a specialized list of Keywords--a list of geographic areas which may be either the subject of research or the location in which a project is to take place.

Categorical Subdivisions: The remaining Keywords are divided into nine broad categories representing major classifications, and one "OTHER" category. Within most major categories are subtopics, with further groupings under them. There are a few exceptions: HEALTH AND SAFETY, LAW, and MANAGEMENT/COMMERCE are aggregate lists with no subgroupings.

KEYWORDS--ALPHABETICAL LIST is a listing, in alphabetical order, of all the Keyword terms which appear in the Categorical List.

THE CODING SCHEME

A seven-digit code is associated with each unique Keyword term and is assigned according to the term's position in the Categorical List. The first two digits designate the major category, the third and fourth digits designate a subtopic (or a grouping which is not further subdivided) and the last three digits designate a unique term within a subtopic.

Ex. 0605001 = The major category ENGINEERING (06), the subtopic CHEMICAL ENGINEERING (05), and the unique term "Process Development Engineering" (001).

Ex. 0408009 = The major category BEHAVIORAL/SOCIAL SCIENCES (04), the subtopic ECONOMICS (08), and the unique term "Macroeconomics" (009).

There are some terms which appear in more than one place in the Categorical List. If the term has the same meaning, even though it appears in different contexts, it will have only one code associated with it, and that will be assigned to the position which seems the most logical. An italicized code indicates that the code was assigned to the term in another location.

Ex. 1006002 Biomass Energy
The code was assigned to the term "Biomass Energy" under the subtopic ENERGY in the SCIENCE AND TECHNOLOGY/MATHEMATICS/COMPUTER SCIENCE category, but the term also appears under AGRICULTURE, with the code in italics.

INSTRUCTIONS

For a given announcement, the codes for Program Types are used in addition to the codes for Keywords and/or Keyword Geographic Terms, and more than one code from each of these sections may be used.

Ex. Program Types 08 (Cultural Outreach) and 20 (Exhibitions, Collections, Performances) may be used in combination with Keyword codes 0316001 (Dance), 0316002 (Dramatic/Theatre Arts), and 0316005 (Music, Instrumental).

The list of Keyword Geographic Terms may be used in combination with Program Types alone, or together with Program Types and other Keywords.

Ex. Program Type 48 (Travel) and Keyword code 0112070 (Japan) would indicate that travel to Japan would be supported, but would not specify what type of activity would then be undertaken in Japan.

Ex. Program Types 34 (Research) and 48 (Travel) may be used in combination with Keyword codes 0112070 (Japan) and 0309010 (Modern History) to indicate that research and travel would be supported for activities concerning modern Japanese history.

These Geographic Terms may be used with any other terms in the Thesaurus, but they seem particularly suitable for combination with such terms as AREA STUDIES (ARTS/HUMANITIES RELATED), FOLK/ETHNIC STUDIES, HISTORY, LANGUAGE AND OR LITERATURE, VISUAL ARTS, International Trade & Finance, and Environmental Geography.

It is hoped that agency officers will make their coding as specific as possible, but sometimes their focus may be general. It is up to the institution to see that its search routine (whether done manually, by word processor, or by computer) conforms to the directions that are given to its faculty when they select their areas of interest. For example, if faculty members want to see all announcements in CRIMINOLOGY (subtopic 0407000), there are two alternatives:

- (1) They may indicate the subtopic code 0407000, and all of the specific codes under it; that is, they may list 0407001, 0407002, 0407003, etc.
- (2) They may indicate only the code 0407000—if the institution intends to perform searches on the level of the first four digits only. The search would then find any program that begins with 0407. If, however, a full seven-digit search is performed, all seven digits must appear in the faculty member's record, and 0407000 would indicate that only announcements coded for the broad subtopic CRIMINOLOGY would be matched to the faculty member.

It should be stressed to all participants that the agencies will be coding as specifically as possible, and that the subtopic codes are not inclusive of the specific codes listed beneath them. 0407000 (CRIMINOLOGY) is intended to be used only when an announcement is too general to fit into one of the specific terms listed beneath it, or when a specific announcement cannot reasonably be fit into one of the specific terms. For these reasons, faculty members may wish to list the subtopic (0407000, CRIMINOLOGY), along with one or more of the specific codes which are of interest to them. In this instance the faculty members would receive announcements coded to the specific codes that were marked, as well as those announcements (which may or may not interest them) which have been coded to the general subtopic only. Again, it is hoped that agency officers will endeavor to use specific codes, and avoid coding announcements with a subtopic code only, thereby limiting most of the "generally" coded announcements to those which are general.

If you have any questions regarding the use of this Thesaurus, please contact John Rodman or Elizabeth Hudson at AC 214/690-2211.

PROGRAM TYPES

- 02 CAPITAL CONSTRUCTION
- 04 CENTERS: RESEARCH/DEMONSTRATION/SERVICE
- 06 CONSULTING/VISITING PERSONNEL
- 08 CULTURAL OUTREACH
- 10 CURRICULUM DEVELOPMENT
- 12 DEMONSTRATION
- 14 DEVELOPMENT
- 16 DISSEMINATION OF INFORMATION
- 18 EQUIPMENT
- 20 EXHIBITIONS, COLLECTIONS, PERFORMANCES
- 22 FELLOWSHIPS
- 24 GENERAL OPERATING SUPPORT
- 26 INTERNSHIPS
- 28 MATERIALS ACQUISITION (BOOKS, TAPES, ETC.)
- 30 PRESERVATION/RESTORATION
- 32 PUBLICATION
- 34 RESEARCH
- 36 RESOURCES (SHARED/NON-ACQUISITION)
- 38 SERVICE DELIVERY PROGRAMS
- 40 STUDENT SUPPORT (INCLUDING DISSERTATION SUPPORT)
- 42 SYMPOSIUMS, CONFERENCES, WORKSHOPS, INSTITUTES, SEMINARS
- 44 TRAINING
- 46 TRANSLATIONS/EDITING
- 48 TRAVEL

GEOGRAPHIC TERMS

CONTINENTS

0101000	AFRICA
0101001	Central
0101002	Eastern
0101003	Northern
0101004	Southern
0101005	Western
0102000	ANTARCTICA
0103000	ASIA
0103001	Arabian Peninsula
0103002	Central
0103003	East (Far East)
0103004	Middle East
0103005	Northern
0103006	Southeast
0103007	Southern
0103008	Western
0104000	EUROPE
0104001	British Isles
0104002	Eastern
0104003	Northern
0104004	Scandinavia
0104005	Southern
0104006	Western
0105000	NORTH AMERICA
0106000	OCEANIA (Including Australia)
0107000	SOUTH AMERICA
0107001	Central America

HEMISPHERES

0108001	Eastern Hemisphere
0108002	Northern Hemisphere
0108003	Southern Hemisphere
0108004	Western Hemisphere

ISLANDS AND CHAINS

0109001	Antilles
0109002	Azores
0109003	Bermuda
0109004	Canary Islands
0109005	Falkland Islands
0109006	Galapagos Islands
0109007	Greenland
0109008	Guam
0109009	Mariana Islands
0109010	Pacific Islands Trust Territory
0109011	Polynesia
0109012	Samoa
0109013	Virgin Islands
0109014	West Indies

OCEANS AND SEAS

0110001	Antarctic Ocean
0110002	Arctic Ocean
0110003	Atlantic Ocean
0110004	Baltic Sea
0110005	Bering Sea
0110006	Black Sea
0110007	Caribbean Sea
0110008	China Seas
0110009	Gulf of Mexico
0110010	Hudson Bay
0110011	Indian Ocean
0110012	Japan, Sea of
0110013	Mediterranean Sea
0110014	North Sea
0110015	Pacific Ocean
0110016	Red Sea
0110017	Yellow Sea

POLAR REGIONS

0102000	Antarctic
0111001	Arctic

NATIONS OF THE WORLD

0112001	Afghanistan
0112002	Albania
0112003	Algeria
0112004	Angola
0112005	Argentina
0112006	Australia
0112007	Austria
0112008	Bahamas
0112009	Bahrain
0112010	Bangladesh
0112011	Belgium
0112012	Belize
0112013	Benin
0112014	Bhutan
0112015	Bolivia
0112016	Botswana
0112017	Brazil
0112018	Bulgaria
0112019	Burma
0112020	Burundi
0112021	Cameroon
0112022	Canada
0112023	Cape Verde
0112024	Central African Republic
0112025	Chad
0112026	Chile
0112027	China (People's Republic)
0112028	Colombia
0112029	Comoros
0112030	Congo
0112031	Costa Rica
0112032	Cuba
0112033	Cyprus
0112034	Czechoslovakia
0112035	Denmark
0112036	Djibouti
0112037	Dominica
0112038	Dominican Republic

0112039	Ecuador	0112109	Poland
0112040	Egypt (United Arab Republic)	0112110	Portugal
0112041	El Salvador	0112111	Qatar
0112042	Ethiopia	0112112	Romania
0112043	Fiji	0112113	Rwanda
0112044	Finland	0112114	Saint Lucia
0112045	France	0112115	Sao Tome & Principe
0112046	French Guiana	0112116	Saudi Arabia
0112047	Gabon	0112117	Senegal
0112048	Gambia	0112118	Seychelles
0112049	German Democratic Republic (East Germany)	0112119	Sierra Leone
0112050	Germany, Federal Republic of (West Germany)	0112120	Singapore
0112051	Ghana	0112121	Solomon Islands
0112052	Greece	0112122	Somalia
0112053	Guatemala	0112123	South Africa
0112054	Guinea	0112124	Soviet Union (USSR)
0112055	Guinea-Bissau	0112125	Spain
0112056	Guyana	0112126	Sri Lanka (Ceylon)
0112057	Haiti	0112127	Sudan
0112058	Honduras	0112128	Suriname
0112059	Hungary	0112129	Swaziland
0112060	Iceland	0112130	Sweden
0112061	India	0112131	Switzerland
0112062	Indonesia	0112132	Syria
0112063	Iran	0112133	Taiwan (Nationalist China)
0112064	Iraq	0112134	Tanzania
0112065	Ireland	0112135	Thailand
0112066	Israel	0112136	Tibet
0112067	Italy	0112137	Togo
0112068	Ivory Coast	0112138	Trinidad and Tobago
0112069	Jamaica	0112139	Tunisia
0112070	Japan	0112140	Turkey
0112071	Jordan	0112141	Uganda
0112072	Kampuchea (Cambodia)	0112142	United Arab Emirates
0112073	Kenya	0112143	United Kingdom (Great Britain and Northern Ireland)
0112074	Korea	0112144	United States
0112075	Kuwait	0112145	Upper Volta
0112076	Laos	0112146	Uruguay
0112077	Lebanon	0112147	Venezuela
0112078	Lesotho	0112148	Vietnam
0112079	Liberia	0112149	Yemen
0112080	Libya	0112150	Yugoslavia
0112081	Luxembourg	0112151	Zaire
0112082	Madagascar	0112152	Zambia
0112083	Malawi	0112153	Zimbabwe (Rhodesia)
0112084	Malaysia		
0112085	Maldives		
0112086	Mali		
0112087	Malta		
0112088	Mauritania		
0112089	Mexico		
0112090	Monaco		
0112091	Mongolia		
0112092	Morocco		
0112093	Mozambique		
0112094	Namibia		
0112095	Nepal		
0112096	Netherlands		
0112097	New Zealand		
0112098	Nicaragua		
0112099	Niger		
0112100	Nigeria		
0112101	Norway		
0112102	Oman		
0112103	Pakistan		
0112104	Panama		
0112105	Papua New Guinea		
0112106	Paraguay		
0112107	Peru		
0112108	Philippines		
		0113001	Arab States
		0113002	British Commonwealth of Nations
		0113003	Developing/Underdeveloped Nations
		0113004	European Common Market
		0113005	Latin America
		0113006	Non-Aligned/Third World Nations
		0113007	Soviet Bloc
		0114001	Alaska
		0114002	Atlantic Central
		0114003	Great Lakes
		0114004	Hawaii
		0114005	Midwest
		0114006	New England
		0114007	Northeast
		0114008	Northwest
		0114009	Southeast
		0114010	Southwest

SUBDIVISIONS: ECONOMIC/LINGUISTIC/POLITICAL

0113001	Arab States
0113002	British Commonwealth of Nations
0113003	Developing/Underdeveloped Nations
0113004	European Common Market
0113005	Latin America
0113006	Non-Aligned/Third World Nations
0113007	Soviet Bloc

REGIONS OF THE UNITED STATES

0114001	Alaska
0114002	Atlantic Central
0114003	Great Lakes
0114004	Hawaii
0114005	Midwest
0114006	New England
0114007	Northeast
0114008	Northwest
0114009	Southeast
0114010	Southwest

0200000

AGRICULTURE/FOOD SCIENCES/FOODS

0201000	AGRICULTURE	1002040	Plant Sciences
0201001	Agricultural Chemical Application	1002041	Plant Virology
0201002	Agricultural Collectives/ Cooperatives	0201046	Plant/Soil Nutrient Bioavailability
0201003	Agricultural Commodities	0201047	Pollen and Pollination
0408001	Agricultural Economics	0201048	Poultry Science
0201004	Agricultural Engineering	0201049	Production Economics and Management (Agriculture)
0201005	Agricultural Finance	1002009	Radiation Biology
0801002	Agricultural Law	0201050	Range Management
0201006	Agricultural Management	0201051	Seed Production
0201007	Agricultural Planning/Policy	0201052	Soil Sciences
0502001	Agriculture Education	0201053	Soil Sciences, Conservation
0201008	Agronomy	0201054	Soil Sciences, Erosion
0201009	Animal Behavior/Ethology	0201055	Soil Sciences, Soil Genesis
0201010	Animal Breeding	0201056	Stockyards
0201011	Animal Care	0201057	Tobacco
0201012	Animal Communication	0201058	Veterinary Medicine
0201013	Animal Diseases/Pathology	0201059	Veterinary Toxicology
0201014	Animal Drugs	0201060	Waste Management (Agriculture)
0201015	Animal Feeds/Nutrition	1007008	Water Pollution
0201016	Animal Genetics	0201061	Water Resources (Agriculture)
0201017	Animal Housing	0201062	Weed Sciences
0201018	Animal Physiology	0201063	Wildlife
0201019	Animal Science	0201064	Wood
0201020	Animal Waste	1002047	Zoology
1002003	Bacteriology	0202000	FOOD SCIENCES
1003002	Biochemistry	0202001	Food Additives
1002000	Biology	0202002	Food Analysis
1006002	Biomass Energy	0202003	Food Chemistry
1002013	Botany	0202004	Food Consumption
0201021	Commodity Futures	0202005	Food Distribution
0201022	Conservation (Agriculture)	0202006	Food Drying
0201023	Crop Insurance	0202007	Food Engineering
0201024	Crop Science	0202008	Food Labeling
1002015	Cytology	0202009	Food Management
0201025	Dairy Science	0202010	Food Manufacturing
0201026	Drainage	0202011	Food Marketing
1002016	Ecology	0202012	Food Practices
1002017	Embryology	0202013	Food Preparation
1002018	Entomology	0202014	Food Preservation
0201027	Farm Machinery	0202015	Food Processing
0201028	Farm and Ranch Management	0202016	Food Safety
0201029	Fertilizers	0202017	Food Storage
0201030	Fish and Fisheries	0202018	Food Technology
0201031	Forest Economics	0202019	Food and Trade Policy
0201032	Forestry and Woodlands	0202020	Foods, Frozen
1002019	Genetics	0202021	Meat Inspection
0201033	Grains	0202022	Nutrition/Dietetics
0201034	Herbicides		
1002021	Histology	0203000	FOODS
0201035	Horticulture	0203001	Bakery Products
1002023	Immunology	0203002	Beverages, Alcoholic
0201036	International Agriculture	0203003	Beverages, Non-Alcoholic
0201037	Irrigation	0203004	Cacao Products
0201038	Land Management	0203005	Candy
1007006	Land Pollution	0203006	Cereals
1002025	Limnology	0203007	Coffee
0201039	Livestock	0203008	Color Additives
0201040	Marketing Agreements (Agri.)	0203009	Cottonseeds
1002027	Microbiology	0203010	Dairy Products
0201041	Migrant Labor	0203011	Dietary Foods
0201042	Migratory Animals and Birds	0203012	Feed Grains
1002008	Molecular Biology	0203013	Fruits
1002028	Mutagenics	0203014	Meat and Meat Products
0201043	Nursery Stock	0203015	Nuts
1002032	Parasitology	0203016	Oils and Fats
0201044	Pest Management	0203017	Oilseeds
0201045	Pesticides	0203018	Poultry Products
1002033	Photosynthesis	0203019	Seafood
1002035	Plant Breeding	0203020	Spices and Flavorings
1002036	Plant Diseases/Pathology	0203021	Sugar
1002037	Plant Genetics	0203022	Tea
1002038	Plant Nutrition	0203023	Vegetables
1002039	Plant Physiology		

0300000

ARTS/HUMANITIES/CULTURAL ACTIVITIES(See Also: BEHAVIORAL/SOCIAL SCIENCES).

0301000	AESTHETICS	0310000	HUMANITIES, GENERAL/OTHER
0401000	ANTHROPOLOGY	0310001	Humanities Planning/Policy
0401001	Anthropology, Cultural/Social	0502019	Humanities/Liberal Education
0402000	ARCHAEOLOGY	0311000	JURISPRUDENCE
0302000	AREA STUDIES (ARTS/HUMANITIES RELATED)	0312000	LANGUAGE AND/OR LITERATURE
	(See Also: AREA & POPULATION STUDIES/SERVICES)	0312001	Classical/Ancient
		0312002	Classical Greek
		0312003	Classical Latin
		0312004	Comparative Literature
		0312005	Drama
		0312006	Fiction
		0312007	Medieval
0303000	ARTS, GENERAL/OTHER	0312008	Modern
0303001	Art Administration	0312009	Non-Fiction
0502003	Art Education	0312010	Poetry
0309004	Art History and Appreciation	0312011	Renaissance
0304000	CREATIVE WRITING	0312012	Translation
0304001	Drama	0410000	LINGUISTICS
0304002	Fiction	0313000	MEDIA ARTS
0304003	Non-Fiction	0313001	Cinema/Video
0304004	Poetry	0503013	Educational Television
0304005	Translation	0313002	Journalism
0305000	CRITICISM	0313003	Photography
0305001	Art Criticism	0313004	Radio
0305002	Literary Criticism	0314000	MUSEUMS
0305003	Music Criticism	0315000	MUSIC
0305004	Theatre/Film Criticism	0502026	Music Education
0306000	CULTURAL ACTIVITIES	0309005	Music History & Appreciation
0307000	DESIGN ARTS	0315001	Musicology/Music Theory
0307001	Architecture	0316000	PERFORMING ARTS
0307002	Environmental Design/Technology	0316001	Dance
0307003	Fashion/Textiles Design	0316002	Dramatic/Theatre Arts
0307004	Graphic Design	0316003	Music Composition
0307005	Interior Design	0316004	Music Conducting
0307006	Landscape Architecture/Design	0316005	Music, Instrumental
0307007	Regional/Urban Design	0316006	Music, Vocal
	(See Also: PLANNING/POLICY STUDIES)	0316007	Opera/Musical Theatre
0307008	Set/Theatre Decoration/Design	0317000	PHILOSOPHY
0308000	FOLK/ETHNIC STUDIES	0901009	Ethics, Business
0308001	Folk/Ethnic Arts	0701028	Ethics, Medical
0308002	Folklore and Mythology	1010007	Logic
		0309007	Philosophy, History of
		0503015	Philosophy/History of Education
0409000	GEOGRAPHY	0318000	RELIGIOUS STUDIES
	(See: GEOGRAPHY list under BEH./SOC. SCIENCES)	0319000	RESTORATION AND PRESERVATION
0309000	HISTORY	0319001	Art Works/Artifacts
0309001	Ancient/Classical	0319002	Manuscripts/Books/Music Scores
0309002	Byzantine	0319003	Structural/Architectural
0309003	Economic History	0320000	VISUAL ARTS
0309004	History & Appreciation of Art	0320001	Ceramics (Visual Arts)
0309005	History & Appreciation of Music	0320002	Craft Arts
0309006	History of Law	0320003	Decorative Arts
0309007	History of Philosophy	0320004	Drawing
0309008	History of Science & Technology	0320005	Jewelry/Metal Arts
0503015	History/Philosophy of Education	0320006	Painting
0309009	Medieval	0320007	Print Making
0309010	Modern	0320008	Sculpture
0309011	Oral History	0320009	Textile/Weaving Arts
0309012	Renaissance		

0400000

BEHAVIORAL/SOCIAL SCIENCES(See Also: ARTS/HUMANITIES/CULTURAL ACTIVITIES, and
MANAGEMENT/COMMERCE.)

0401000	ANTHROPOLOGY	0405000	COMMUNICATIONS
0401001	Anthropology, Cultural/Social	0901002	Advertising
0401002	Anthropology, Physical	0405001	Broadcast Media
		0313002	Journalism
		0405002	Print Media
		0901039	Public Relations
0402000	ARCHAEOLOGY		
0403000	AREA & POPULATION STUDIES/ SERVICES [See Also: AREA STUDIES (ARTS/HUMANITIES RELATED)]	0406000	COUNSELING/GUIDANCE
0403001	Adolescence	0503008	Counseling/Guidance (Educ.)
0403002	Blacks	0406001	Crisis Counseling
0403003	Children and Youth	0406002	Family/Marriage Counseling
0403004	Community/Outreach Programs	0406003	Vocational Counseling
0403005	Cross-Cultural		
0113003	Developing/Underdeveloped Nations	0407000	CRIMINOLOGY
0403006	Familial Abuse	0407001	Correctional Institutions/ Procedures
0403007	Family	0407002	Crime Causation
0701014	Family Health/Planning/Safety	0407003	Crime Control
0403008	Handicapped/Disabled	0407004	Criminal Behavior
0403009	Hispanics	0407005	Criminal Justice
0403010	Illegal Aliens	0801018	Judicial/Law Administration
0403011	Immigrants	0407006	Juvenile Delinquency
0403012	Inner-City	0801021	Law Enforcement
0403013	Minorities and Disadvantaged	0407007	Non-Violent/White-Collar Cri
0403014	Native Americans	0407008	Victimization/Compensation
0403015	Refugees		
0403016	Veterans		
0403017	Volunteers		
0403018	Women		
0404000	BEHAVIORAL/SOCIAL STUDIES/SERVICES, OTHER	0408000	ECONOMICS
0404001	Addictions	0408001	Agricultural Economics
0404002	Aging/Gerontology	0408002	Econometrics
0404003	Alcohol/Alcoholism	0901015	Economic Development
0404004	Child Development	0309003	Economic History
0404005	Consumer Behavior	0408003	Economic Theory
0404006	Day Care	0408004	Energy Economics
0404007	Death and Dying	0408005	Fiscal Theory/Application
0701010	Death and Dying, Health and Physical Needs	0408006	Health Care Economics
0404008	Disasters	0408007	International Economics
0404009	Drugs/Drug Abuse	0901022	International Trade and Finance
0404010	Food Stamps	0408008	Labor Economics
0404011	Halfway Programs	0408009	Macroeconomics
0404012	Hospices	0408010	Microeconomics
0503018	Learning, Motivation	0408011	Political Economics
0701029	Mental and Emotional Health	0408012	Regional Economics
0412005	Political Behavior		
0404013	Poverty and the Poor	0409000	GEOGRAPHY
0404014	Racism/Race Relations	0409001	Cartography
0404015	Rape/Sexual Abuse	0409002	Geographic Quantitative Methods
0404016	School Food Programs	0409003	Geography, Economic
0404017	Social Services Delivery	1007004	Geography, Environmental
0404018	Sex Roles	0409004	Geography, Linguistic
0404019	Smoking Behavior	1005004	Geography, Physical
0404020	Suicide	0409005	Geography, Political
0404021	Surveys	0409006	Geography, Social
0404022	Terrorism	0409007	Geography, Urban
0404023	Violent Behavior		
0404024	Work Motivation	0410000	LINGUISTICS

0411000 PLANNING/POLICY STUDIES
0201007 Agricultural
1006011 Energy
0701023 Health
0310007 Humanities
0411001 International
0411002 National
0901035 Management/Commerce
0411003 Public
0411004 Regional
0307007 Regional/Urban Design
0411005 Risk Analysis
0411006 Rural
1014002 Science
1016003 Technology
0606042 Transportation Engineering
0411007 Urban

0412000 POLITICAL SCIENCE
(See Also: LAW)

0412001 Civil/Human Rights
0412002 Government Regulations
0412003 Government Studies
0412004 International Relations
0412005 Political Behavior
0408011 Political Economics
0412006 Political Theory
0404022 Terrorism

0413000 POPULATION STUDIES
0413001 Demography
0413002 Human Reproduction/Fertility
0413003 Migration
0413004 Population Biology
0413005 Population Control

0414000 PSYCHOLOGY
(See Also: EDUCATIONAL MODES/
PSYCHOLOGY/THEORY)
0414001 Analytical Psychology
0414002 Applied Psychology
0414003 Behavioral Psychology
0404004 Child Development
0414004 Clinical Psychology
0414005 Cognitive Development/
Processes
0414006 Developmental Psychology
0414007 Educational Psychology
0414008 Humanistic Psychology
0414009 Industrial Psychology
0701029 Mental and Emotional Health
0414010 Parapsychology
0414011 Physiological Psychology
0414012 Psychobiology
0414013 Psychometrics
0414014 Social Psychology

0415000 REHABILITATION/THERAPY
0415001 Emotional/Social
0415002 Occupational/Vocational
0415003 Physical

0416000 SOCIAL SERVICES
(See: AREA & POPULATION
STUDIES/SERVICES, and
BEHAVIORAL/SOCIAL
STUDIES/SERVICES)
0404017 Social Services Delivery

0417000 SOCIOLOGY
0417001 Applied Sociology
0417002 Comparative Sociology
0417003 Organizational Theory
and Behavior
0901032 Organizational Theory
and Behavior (Mgmt./Comm.)
0417004 Social Measurement
and Indicators
0417005 Social Stratification/Mobility
0417006 Sociological Theory
0502034 Sociology Education

0500000

EDUCATION

0501000	EDUCATIONAL ADMINISTRATION AND POLICY	0503000	EDUCATIONAL MODES/PSYCHOLOGY/THEORY (See Also: PSYCHOLOGY)
0501001	Educational Finance	0503001	Academic Achievement
0801012	Educational Law	0503002	Affective Development
0501003	Equal Educational Opportunity	0503003	Alternative Modes Education
0501004	Politics of Education	0503004	Bilingual/Bicultural Education
0501005	Private & Parochial Education	0503005	Classroom Instruction
0501006	Public Education	0414005	Cognitive Development/Processes
0501007	Rural Education	0503006	Comparative Education
0501008	Community & School Relations	0503007	Computer-Assisted Instruction
0501009	School Desegregation	0503008	Counseling/Guidance (Educ.)
0501010	School Organization	0503009	Discipline Problems
0501011	Transfer Students	0503010	Education, Organizational Theory and Behavior
0501012	Urban Education	0503011	Education and Work
0501013	Volunteers (Education)	0503012	Educational Evaluation/Assessment
0502000	EDUCATIONAL/INSTRUCTIONAL PROGRAMS	0414007	Educational Psychology
0502001	Agriculture Education	0503013	Educational Television
0502002	Alcohol Education	0503014	Educational Testing/Measurement
0502003	Art Education	0503015	History/Philosophy of Education
0502004	Basic Skills Education	0503016	Instructional Materials and Practices
0502005	Business Education	0503017	Instructional Television
0502006	Career Education & Planning	0503018	Learning Motivation
0502007	Consumer Education/Information	0503019	Literacy
0502008	Dance Education	0503020	Parent Involvement
0502009	Dental Health Education	0503021	Play
0502010	Driver Education	0503022	Teacher Attitudes
0502011	Drug Education		
0502012	Energy Education		
0502013	English Education	0504000	ELEMENTARY/SECONDARY EDUCATION
0502014	English as a Second Language	0504001	Elementary Education
0502015	Environmental Education	0504002	High School Education
0502016	Foreign Languages Education	0504003	Junior High School Education
0502017	Health and Safety Education	0504004	Middle School Education
0502018	Home Economics Education		
0502019	Humanities/Liberal Education	0505000	HIGHER EDUCATION
0502020	Industrial Arts Education	0505001	Adult & Continuing Education
0502021	Language Arts Education	0505002	College Students
0502022	Legal Education	0505003	Higher Education - Private
0502023	Mathematics Education	0505004	Higher Education - Public
0502024	Medical Education	0505005	Junior & Community Colleges
0502025	Metric Education		
0502026	Music Education		
0502027	Nursing Education	0506000	PRE-SCHOOL EDUCATION
0502028	Nutrition Education		
0502029	Physical Education		
0502030	Reading Education	0507000	SPECIAL EDUCATION
0502031	Science Education	0507001	Compensatory Education
0502032	Sex Education	0507002	Emotionally Disturbed Education
0502033	Social Science Education	0507003	Gifted or Talented Education
0502034	Sociology Education	0507004	Handicapped Education
0502035	Speech/Communication Education	0507005	Learning Disabled Education
0502036	Teacher Education	0507006	Remedial Education
0502037	Values Education		
0502038	Vocational/Technical Education		
0502039	Writing/Composition Education		

(See Also: SCIENCE & TECHNOLOGY/MATHEMATICS/COMPUTER SCIENCE)

0601000	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING	0606032	Structural Design
0601001	Aerodynamics	0606033	Structural Dynamics
0601002	Aeroelasticity	0606034	Structural Engineering
		0606035	Structure Reliability
		0606036	Traffic Engineering
		0606037	Transportation Engineering
		0606038	Transportation Engineering, Design
0602000	BIOENGINEERING	0606039	Transportation Engineering
0603000	BIOMEDICAL ENGINEERING	0606040	Economics
0604000	CERAMIC ENGINEERING	0606041	Transportation Engineering, Environmental Impacts
0605000	CHEMICAL ENGINEERING	0606042	Transportation Engineering, Intermodal Studies
1007005	Air Pollution	0606043	Transportation Engineering, Planning/Policy Studies
1003009	Colloid Chemistry	0606044	Transportation Surveys
1003012	Organic Chemistry	0606045	Tunnels
1003013	Petroleum Chemistry	1007008	Waste Water Treatment
0605001	Process Development Engineering	0606046	Water Pollution
0605002	Unit Operations Engineering	1007010	Water Resources (Engineering)
		0606047	Water Resources, Environmental Impacts
		0606048	Water Resources Management/ Planning
0606000	CIVIL ENGINEERING	0606049	Water Supply
1007005	Air Pollution	0606050	Water Treatment
0606001	Architectural Engineering	0607000	Waterways and Harbors
0603000	Biomedical Engineering	0607001	ELECTRONICS AND ELECTRICAL ENGINEERING
0606002	Coastal & Ocean Engineering	0603000	Applied Electronics
0606003	Computer-Assisted Design (Civil Engineering)	0607002	Biomedical Engineering
0606004	Concrete Structures	0607003	Communication Systems
0606005	Construction Engineering	0607004	Computer Design
0606006	Construction Management	0607005	Control Systems (Electronics & Electrical Engineering)
0606007	Dams and Earth Structures	0607006	Electric Power Conversion
0606008	Earthquake Engineering	0607007	Electric Power Generation
0606009	Engineering Geology	0607008	Electric Power Transmission
0606010	Environmental Engineering	0607009	Electromagnetic Propagation
0606011	Fluid Mechanics (Civil Engi.)	1013014	Lasers (Engineering).
0606012	Geotechnical Engineering	0607010	Lasers and Masers (Physical Sciences)
0606013	Hydraulic Engineering	0607011	Microelectronics
0606014	Landslides	0607012	Microwave Theory
0606015	Materials Engineering	0607013	Navigation & Guidance Systems
0606016	Materials, Engineering Properties	0607014	Optical Communications
0606017	Materials Recovery	0607015	Pattern & Character Recognition (Engineering)
0606018	Materials Science (Engineering)	0607016	Plasma Electronics
0606019	Materials Testing	0607017	Radar
0606020	Numerical Models	0607018	Range and Tracking Systems
0606021	Nuclear Materials Transport	0607019	Remote Sensing (Electronics & Electrical Engineering)
0606022	Nuclear/Radioactive Waste Disposal	0607020	Robotics (Electronics & Electrical Engineering)
0606023	Pavements	0607021	Solid State Electronics
0606024	Rock Mechanics	0607022	Surveillance Systems
0606025	Sanitary Engineering	1016005	Systems Engineering
0606026	Sanitary Engineering, Environmental Impacts	0607023	Telecommunications
0606027	Soil Mechanics & Foundations	0607024	Telemetry
0606028	Soil/Structure Interaction		Ultrasonic Technology
0606029	Solid Waste Disposal		
0606030	Steel Structures		
0606031	Structural Analysis		

0608000	INDUSTRIAL ENGINEERING	0609023	Marine Engineering
0608001	Engineering Administration/ Management	0609024	Mechanical Systems
0608002	Engineering Innovation Processes	0609025	Mechanics
0608003	Engineering, Management Information Systems	0609026	Medical Devices Engineering
0608004	Engineering, Personnel Management	1008010	Nuclear Energy
0608005	Engineering, Project Management	0609027	Nuclear Engineering
0608006	Engineering Statistics	0609028	Nuclear Technology
0608007	Ergonomics	0609029	"See Also: NUCLEAR SCIENCES)
0608008	Human Factors Engineering	0609030	Plasticity
0608009	Industrial Relations	0609031	Propulsion
0608010	Industrial Systems Engineering	0609032	Robotics
0608011	Manufacturing Processes (Industrial Engineering)	0609033	(Mechanical Engineering)
0608012	Operations Research (Engineering)	0610000	Solar Heating
0608013	Production Engineering	0610001	Solid Mechanics
0608014	Quality Control (Engineering)	1011001	Thermodynamics Engineering
0608015	Reliability (Engineering)		Thermosciences Engineering
0608016	Value Engineering		Turbomachinery

MINING ENGINEERING
Materials Processing
Engineering
Ocean Mining

0611000 PETROLEUM ENGINEERING

0609000	MECHANICAL ENGINEERING
1007005	Air Pollution
0609001	Automation
0609002	Automotive Engineering
0609003	Combustion
0609004	Computer-Assisted Design (Mechanical Engineering)
0609005	Continuum Mechanics
0609006	Control Systems (Mechanical Engineering)
0609007	Elasticity
0609008	Electromechanical Systems
0609009	Emission Control
1006001	Energy Audits
1006004	Energy Conservation/ Consumption
1006005	Energy Conversion
1006011	Energy Planning/Policy
1006012	Energy, Renewable Resources
1006013	Energy, Solar
1006014	Energy Storage
1006015	Energy Systems
1006016	Energy Technology
1006018	Energy, Tidal
1006020	Energy, Wind
0609010	Engineering Design
0609011	Engines
0609012	Environmental Design
0609013	Fatigue (Engineering)
0609014	Fluid Mechanics (Mechanical Engineering)
0609015	Fracture
0609016	Gas Turbines
0609017	Heat Transfer
0609018	Heating, Ventilation and Air Conditioning
0609019	Industrial Design
0609020	Machine Design
0609021	Magnetohydrodynamics
0609022	Manufacturing (Mechanical Engineering)

0701001 Adolescent Health
0701002 Aerospace Biomedicine
0701003 Aging/Gerontology (Health and Safety)
0404003 Alcohol/Alcoholism
0502002 Alcohol Education
0701004 Audiology
0602000 Bioengineering
0603000 Biomedical Engineering
1002012 Biometry
0701005 Birth/Congenital Defects
0701006 Chiropractic
0701007 Communication Disorders
0701008 Communication Disorders, Hearing
0701009 Communication Disorders, Speech
 (See Also: Speech Pathology)
0701010 Death and Dying, Health and Physical Needs
0502009 Dental Health Education
0701011 Dental Health and Hygiene
0701012 Dentistry
0404008 Disasters
0502011 Drug Education
0404009 Drugs/Drug Abuse
0701013 Epidemiology
0701014 Family Health/Planning/Safety
0701015 Health, Allied Fields
0701016 Health Care
0701017 Health Care Administration
0408006 Health Care Economics
0701018 Health, Environmental
0701019 Health Facilities Studies
0701020 Health Insurance
0701021 Health Maintenance Organizations
0701022 Health Manpower/Professions
0701023 Health Planning/Policy
0701024 Health, Radiation Effects
0701025 Health Records
0502017 Health and Safety Education
0701026 Health Services Delivery
0701027 Maternal and Child Health
0701028 Medical Ethics
0701029 Mental and Emotional Health
0701030 Midwifery
0701031 Nurse Practitioner
0701032 Nursing
0502027 Nursing Education
0701033 Nursing Homes
0202022 Nutrition/Dietetics
0502028 Nutrition Education
0701034 Occupational Safety & Health
0701035 Optometry
0701036 Pain
0701037 Patient Care and Education
0701038 Pharmacology
0701039 Pharmacy
0701040 Poison Control
0701041 Preventive Dentistry
0701042 Preventive Medicine
0701043 Public Health
0415002 Rehabilitation/Therapy, Occupational/Vocational
0415003 Rehabilitation/Therapy, Physical
0411005 Risk Analysis
0701044 Safety
0502032 Sex Education
0701045 Speech Pathology
 (See Also: Communication Disorders)
0701046 Stress
0701047 Traffic Safety
0701048 Trauma

- 0801001 Administrative Law
- 0801002 Agricultural Law
- 0801003 Banking Law
- 0801004 Business Law
- 0801005 Civil Law
- 0801006 Communications Law
- 0801007 Constitutional Law
- 0801008 Consumer Law
- 0801009 Corporate Law
- 0801010 Criminal Law
- 0801011 Domestic Relations (Law)
- 0801012 Educational Law
- 0801013 Environmental Law
- 0801014 Forensic Law
- 0801015 Housing Law
- 0801016 Immigration Law
- 0801017 International and Comparative Law
- 0801018 Judicial/Law Administration
- 0311000 Jurisprudence
- 0801019 Juvenile Law
- 0801020 Labor Law
- 0801021 Law Enforcement
- 0309006 Law History
- 0502022 Legal Education
- 0801022 Maritime Law
- 0801023 Military Law
- 0801024 Mining Law
- 0801025 Patents, Copyrights, Trademarks

(See Also: BEHAVIORAL/SOCIAL SCIENCES)

- 1 0901001 Accounting
- 0901002 Advertising
- 0408001 Agricultural Economics
- 0901003 Auditing
- 0901004 Automation, Office
- 0901005 Banking
- 0901006 Bankruptcy
- 0901007 Business Administration
- 0901008 Business Communications
- 0602005 Business Education
- 0901009 Business Ethics
- 0801004 Business Law
- 0901010 Commerce
- 0901011 Computer Technology
- 0404005 Consumer Behavior
- 0602007 Consumer Education/Information
- 0901012 Consumer Services
- 0901013 Credit
- 0901014 Currency
- 0901015 Economic Development
- 0309003 Economic History
- 0408003 Economic Theory
- 0408000 Economics
- 0901016 Efficiency Studies
- 0901017 Employee Benefits
- 0901018 Finance
- 0901019 Hotel & Restaurant Management
- 0901020 Industry
- 0901021 Insurance
- 0408007 International Economics
- 0901022 International Trade & Finance
- 0901023 Investments and Securities
- 0408008 Labor Economics
- 0901024 Leadership
- 0408009 Macroeconomics
- 0901025 Management Information Systems
- 0901026 Management Sciences
- 0901027 Manpower Research
- 0901028 Marketing
- 0901029 Marketing Research
- 0408010 Microeconomics
- 0201041 Migrant Labor
- 0901030 Minority/Woman-Owned Business
- 0901031 Operations Research
- 0901032 Organizational Theory and Behavior (Mgmt./Comm.)
- 0901033 Parks & Recreation Management
- 0901034 Personnel
- 0901035 Planning/Policy Studies, Management/Commerce
(See Also: PLANNING/POLICY STUDIES)
- 0901036 Price Change
- 0901037 Public Administration
- 0411003 Public Planning/Policy
- 0901039 Public Relations
- 0901040 Purchasing/Procurement
- 0901041 Quality/Product Control
- 0608014 Quality Control (Engineering)
- 0901042 Real Estate
- 0901043 Small Business
- 0901044 Statistics, Business
- 0901045 Taxes and Taxation
- 0901046 Utilities
- 0901047 Word/Text Processing (Management/Commerce)
- 0404024 Work Motivation

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SCIENCE & TECHNOLOGY/MATHEMATICS/COMPUTER SCIENCE

(See Also: ENGINEERING)

1001000	ATMOSPHERIC SCIENCES	0201047	Pollen and Pollination
1001001	Air Pollution (Atmospheric Sciences)	1002042	Reproduction
1001002	Atmosphere: Composition, Disturbance, Physics	1002043	Sociobiology
1001003	Climatology	1007009	Toxicology
1001004	Clouds	1002044	Vertebrate Physiology
1001005	Meteorology	1002045	Viral Studies
1001006	Precipitation	1002046	Vision
1001007	Probes and Satellites, Atmospheric	1002047	Zoology
1001008	Remote Sensing (Atmospheric Sciences)		
1001009	Weather Modification		
1002000	BIOLOGICAL SCIENCES (See Also: AGRICULTURE)	1003000	CHEMICAL SCIENCES
1002001	Anatomy	1003001	Atomic & Molecular Structure
1002002	Animal Breeding and Facilities, Scientific (See Also: Animal listings under AGRI.)	1003002	Biochemistry
1002003	Bacteriology	1003003	Chemical Dynamics
1003002	Biochemistry	1003004	Chemical Effects (Chemical Sciences)
1008005	Biological Oceanography	1013020	Chemical Physics
1002004	Biology, Cellular	1003005	Chemical Properties
1002005	Biology, Conservation	1003006	Chemical Synthesis
1002006	Biology, Developmental	1003007	Chemistry
1007001	Biology, Environmental	1003008	Chemistry, Analytical
1002007	Biology, Metabolic	1003009	Chemistry, Colloid
1002008	Biology, Molecular	1007002	Chemistry, Environmental
1002009	Biology, Radiation	1003010	Chemistry, Inorganic
1002010	Biology, Regulatory	1003011	Chemistry, Nuclear
1002011	Biology, Systematic	1003012	Chemistry, Organic
1002012	Biometry	1003013	Chemistry, Petroleum
1013004	Biophysics	1003014	Chemistry, Physical
1002013	Botany	1005002	Geochemistry
1002014	Cancer/Carcinogenesis		
1002015	Cytology	1004000	COMPUTER SCIENCE
1002016	Ecology	1004001	Computer Applications
1002017	Embryology	1004002	Computer-Assisted Design
1002018	Entomology	0503007	Computer-Assisted Instruction
1002019	Genetics	1004003	Computer Engineering
1002020	Herpetology	1004004	Computer Graphics
1002021	Histology	1004005	Computer Modeling
1002022	Ichthyology	1004006	Computer Programming
1002023	Immunology	1004007	Systems/Languages
1002024	Instrumentation, Biological	1004008	Computer Software
1002025	Limnology	1004009	Computer Storage & Retrieval
1002026	Mammalogy	1004010	Computer Systems Analysis
1002027	Microbiology	1004011	Computer Theory
0201042	Migratory Animals and Birds	1004012	Computers & Systems, Digital Control Applications (Computer Sciences)
1002028	Mutagenics	1004013	Control Theory (Computer Sciences)
1002029	Mycology	1004014	Cryptography
1002030	Neuroscience	1004015	Cybernetics
1002031	Ornithology	1004016	Data Analysis
1002032	Parasitology	1004017	Information Science/Systems
1002033	Photosynthesis	1004018	Information Theory
1002034	Physiological Processes	1004019	Instrumentation, Medical (Computer Sciences)
1002035	Plant Breeding	1004020	Library Automation
1002036	Plant Diseases/Pathology	1004021	Machine Translation
1002037	Plant Genetics	1004022	Pattern Recognition (Computer Sciences)
1002038	Plant Nutrition	1004023	Publishing, Electronic
1002039	Plant Physiology	1004024	Word/Text Processing (Computer Sciences)
1002040	Plant Sciences		
1002041	Plant Virology		

1005000	EARTH SCIENCES	1007000	ENVIRONMENTAL STUDIES
1005001	Air-Sea Boundary Interactions	1007001	Ecology
1005002	Geochemistry	1007002	Environmental Biology
1005003	Geodesy	0809018	Environmental Chemistry
1005004	Geography, Physical (See Also: GEOGRAPHY 11st under BEH./SOC. SCIENCES)	0508016	Environmental Design
1005005	Geology	1007003	Environmental Education
1005006	Geology, Coastal	1009004	Environmental Effects
1005007	Geology, Economic	1007004	Environmental Effects (Materials Sciences)
1005008	Geology, Marine	0701018	Environmental Geography
1005009	Geology, Physical	0801013	Environmental Health
1005010	Geology, Structural	0808021	Environmental Law
1005011	Geomorphology	0808022	Nuclear Materials Transport
1013008	Geophysics	1012003	Nuclear/Radioactive Waste Disposal
1005012	Glaciology	1012004	Nuclear/Radioactive Wastes
1005013	Hydrology	1007005	Nuclear Safety
1005014	Instrumentation, Earth Sciences	1007006	Pollution, Air
1005015	Mineral Resources	1007007	Pollution, Land
1005016	Mineralogy	1007008	Pollution, Noise
1008004	Oceanography	0411005	Pollution, Water
1008006	Oceanography, Physical	0808029	Risk Analysis
1005017	Paleontology	1007009	Solid Waste Disposal
1005018	Petroleum Science	0808045	Toxicology
1005019	Petrology	0801061	Waste Water Treatment
1005020	Remote Sensing, Earth Sciences	0808046	Water Resources (Agriculture)
1005021	Sedimentology	1007010	Water Resources (Engineering)
1005022	Seismology	0808047	Water Resources, Environmental Impacts
1005023	Stratigraphy		Water Resources Management/Planning
1005024	Tectonics		
1006000	ENERGY (See Also: NUCLEAR SCIENCES)	1008000	MARINE SCIENCES
1006001	Energy Audits	0608002	Coastal & Ocean Engineering
1006002	Energy, Biomass	1008001	Coastal Processes
1006003	Energy, Chemical	1008002	Estuarine Sciences
1006004	Energy Conservation/ Consumption	1011001	Ocean Mining
1006005	Energy Conversion	1008003	Oceanographic Facilities
0408004	Energy Economics	1008004	Oceanography
0502012	Energy Education	1008005	Oceanography, Biological
1006006	Energy, Electrical	1008006	Oceanography, Physical
1006007	Energy, Fusion	1008007	Sea Water Properties
1006008	Energy, Geothermal	1009000	MATERIALS SCIENCES
1006009	Energy, Hydroelectric	1009001	Ceramics/Refractories
1006010	Energy, Nuclear	1009002	Corrosion
1006011	Energy Planning/Policy	1009003	Crystallography
1006012	Energy, Renewable Resources	1009004	Environmental Effects (Materials Sciences)
1006013	Energy, Solar	1009005	Fatigue/Fracture
1006014	Energy Storage	1009006	Materials, Amorphous
1006015	Energy Systems	1009007	Materials, Composite
1006016	Energy Technology	1009008	Materials, Polymeric
1006017	Energy, Thermal	1009009	Materials Processing and Finishing
1006018	Energy, Tidal	1009010	Mechanical Properties (Materials Sciences)
1006019	Energy Transmission	1009011	Metallurgy
1006020	Energy, Wind	1009012	Metallurgy, Extractive and Process
1006021	Fossil Fuels	1009013	Polymer Science
1006022	Fuel Cells	1009014	Superconductivity (Materials Sciences)
0607009	Lasers (Engineering)		
1013014	Lasers and Masers (Physical Sciences)		
1006023	Ocean Thermal Gradients		
1006024	Thermosciences		

1010000	MATHEMATICS	1003014	Physical Chemistry
1010001	Algebra	1013018	Physics
1010002	Analysis & Functional Analysis	1013019	Physics, Atomic
1010003	Applied Mathematics	1013020	Physics, Chemical
1010004	Calculus	1013021	Physics, Elementary Particle
1010005	Finite Mathematics	1013022	Physics, High Energy
1010006	Geometry	1013023	Physics, Nuclear
1010007	Logic	1013024	Physics, Particle
1010008	Mathematical Foundations	1013025	Physics, Plasma
0503023	Mathematics Education	1013026	Physics, Radiation
0502026	Metric Education	1013027	Physics, Solar
1010009	Number Theory	1013028	Physics, Solid State
1010010	Numerical Analysis	1013029	Physics, Theoretical
1010011	Operations Research (Mathematics)	1013030	Planetary Studies
1010012	Probability	1013031	Radiosources, Infrared, X-Ray, Gamma Ray
1010013	Statistics	1013032	Relativity
1010014	Topology	1013033	Solar Studies
1010015	Trigonometry	1013034	Spectroscopy
		1013035	Superconductivity (Physical Sciences)
		1013036	Synchrotron Radiation
		1013037	Thermodynamics
1011000	MINING (See Also: MINING ENGINEERING)		
1011001	Ocean Mining	1014000	SCIENCE, GENERAL/OTHER
		0309008	History of Science and Technology
1012000	NUCLEAR SCIENCES (See Also: ENERGY, and ENVIRONMENTAL STUDIES)	1014001	Instrumentation, Scientific
1003011	Nuclear Chemistry	0502031	Science Education
1008010	Nuclear Energy	1014002	Science Planning/Policy
0609027	Nuclear Engineering		
1012001	Nuclear Fission	1015000	SPACE SCIENCES
1012002	Nuclear Medicine	1015001	Aeronautics
1013023	Nuclear Physics	1015002	Astronautics
1012003	Nuclear/Radioactive Wastes	1015003	Lunar Sciences
1012004	Nuclear Safety [Also: Disasters (0404008)]	1015004	Probes and Satellites, Space
0609028	Nuclear Technology		
1013000	PHYSICAL SCIENCES	1016000	TECHNOLOGY
1013001	Acoustics	1016001	Appropriate Technology
1013002	Astronomy	1016002	Technology Assessment
1013003	Astrophysics	1016003	Technology Planning/Policy
1013004	Biophysics	1016004	Technology Transfer
1013005	Celestial Mechanics	1016005	Telecommunications
1013006	Condensed Matter		(See Also: ELECTRONICS & ELECTRICAL ENGINEERING)
1013007	Dielectric Properties		
1013008	Galaxies, Stellar Systems	1017000	TEXTILES
1013009	Geophysics		
1013010	Gravitation		
1013011	High Pressure Sciences		
1013012	Instrumentation & Techniques (Physical Sciences)		
1013013	Interstellar Studies		
0607009	Lasers (Engineering)		
1013014	Lasers and Masers (Physical Sciences)		
1013015	Low Temperature Sciences		
1015003	Lunar Sciences		
1013016	Magnetics		
1013017	Optics		

1100000

OTHER

1101000 FIRE/FLAMMABILITY STUDIES

1102000 HOUSING

1103000 LIBRARY SCIENCE

1104000 MILITARY SCIENCES/MILITARY HISTORY

1105000 PEACE/AMNESTY

1106000 RECREATION AND LEISURE STUDIES

1107000 UNIVERSITY/INDUSTRY COOPERATIVE ACTIVITIES

KEYWORDS--ALPHABETICAL LIST

0503001	Academic Achievement	0102000	ANTARCTICA
0901001	Accounting	0401000	ANTHROPOLOGY
1013001	Acoustics	0401001	Anthropology, Cultural/Social
0404001	Addictions	0401002	Anthropology, Physical
0403001	Adolescence	0109001	Antilles
0701001	Adolescent Health	0113001	Arab States
0901002	Advertising	0103001	Arabian Peninsula
0601001	Aerodynamics	0402000	ARCHAEOLOGY
0601002	Aeroelasticity	0606001	Architectural Engineering
0601000	AERONAUTICAL & ASTRONAUTICAL ENGINEERING	0307001	Architecture
1015001	Aeronautics	0111001	Arctic
0701002	Aerospace Biomedicine	0110002	Arctic Ocean
0301000	AESTHETICS	0403000	AREA AND POPULATION STUDIES/SERVICES
0503002	Affective Development	0302000	AREA STUDIES (ARTS/ HUMANITIES RELATED)
0112001	Afghanistan		Argentina
0101000	AFRICA	0112005	Art Administration
0101001	Africa, Central	0303001	Art Criticism
0101002	Africa, Eastern	0305001	Art Education
0101003	Africa, Northern	0502003	Art History and Appreciation
0101004	Africa, Southern	0309004	Art Works/Artifacts
0101005	Africa, Western	0319001	ARTS, GENERAL/OTHER
0404002	Aging/Gerontology	0303000	ARTS/HUMANITIES/CULTURAL ACTIVITIES
0701003	Aging/Gerontology (Health and Safety)	0300000	ASIA
0201001	Agricultural Chemical Application	0103000	Asia, Central
0201002	Agricultural Collectives/ Cooperatives	0103002	Asia, East (Far East)
0201003	Agricultural Commodities	0103003	Asia, Northern
0408001	Agricultural Economics	0103005	Asia, Southeast
0201004	Agricultural Engineering	0103006	Asia, Southern
0201005	Agricultural Finance	0103007	Asia, Western
0801002	Agricultural Law	0103008	Astronautics
0201006	Agricultural Management	1015002	Astronomy
0201007	Agricultural Planning/Policy	1013002	Astrophysics
0201000	AGRICULTURE	1013003	Atlantic Ocean
0502001	Agriculture Education	0110003	Atmosphere: Composition, Disturbance, Physics
0200000	AGRICULTURE/FOOD SCIENCES/ FOODS	1001002	ATMOSPHERIC SCIENCES
0201008	Agronomy	1001000	Atomic & Molecular Structure
1007005	Air Pollution	1003001	Audiology
1001001	Air Pollution (Atmospheric Sciences)	0701004	Auditing
1005001	Air-Sea Boundary Interactions	0901003	Australia
0114001	Alaska	0112006	Austria
0112002	Albania	0112007	Automation
0502002	Alcohol Education	0609001	Automation, Office
0404003	Alcohol/Alcoholism	0901004	Automotive Engineering
1010001	Algebra	0609002	Azores
0112003	Algeria	0109002	Bacteriology
1010002	Analysis & Functional Analysis	1002003	Bahamas
1002001	Anatomy	0112008	Bahrain
0112004	Angola	0112009	Bakery Products
0201009	Animal Behavior/Ethology	0203001	Baltic Sea
0201010	Animal Breeding	0110004	Bangladesh
1002002	Animal Breeding & Facilities, Scientific	0112010	Banking
0201011	Animal Care	0901005	Bankruptcy
0201012	Animal Communication	0901006	BEHAVIORAL/SOCIAL SCIENCES
0201013	Animal Diseases/Pathology	0400000	BEHAVIORAL/SOCIAL STUDIES/SERVICES, OTHER
0201014	Animal Drugs	0404000	Belgium
0201015	Animal Feeds/Nutrition	0112011	Belize
0201016	Animal Genetics	0112012	Benin
0201017	Animal Housing	0112013	Bering Sea
0201018	Animal Physiology	0110005	Bermuda
0201019	Animal Science	0109003	Beverages, Alcoholic
0201020	Animal Waste	0203002	Beverages, Non-Alcoholic
0110001	Antarctic Ocean	0203003	Bhutan
		0112014	Biochemistry
		1003002	BIOENGINEERING
		0602000	Biological Oceanography
		1008005	

1002000	BIOLOGICAL SCIENCES	0110008	China Seas
1002004	Biology, Cellular	0701006	Chiropractic
1002005	Biology, Conservation	0313001	Cinema/Video
1002006	Biology, Developmental	0606000	CIVIL ENGINEERING
1007001	Biology, Environmental	0412001	Civil/Human Rights
1002007	Biology, Metabolic	0503005	Classroom Instruction
1002008	Biology, Molecular	1001003	Climatology
1002009	Biology, Radiation	1001004	Clouds
1002010	Biology, Regulatory	0606002	Coastal and Ocean Engineering
1002011	Biology, Systematic	1008001	Coastal Processes
1006002	Biomass Energy	0203007	Coffee
0603000	BIOMEDICAL ENGINEERING	0414005	Cognitive Development/
1002012	Biometry	1003009	Processes
1013004	Biophysics	0112028	Colloid Chemistry
0701005	Birth/Congenital Defects	0203008	Colombia
0110006	Black Sea	0609003	Color Additives
0403002	Blacks	0901010	Combustion
0112015	Bolivia	0201021	Commerce
1002013	Botany	0701007	Commodity Futures
0112016	Botswana	0701008	Communication Disorders
0112017	Brazil	0701009	Communication Disorders, Hearing
0113002	British Commonwealth of Nations	0701009	Communication Disorders, Speech
0104001	British Isles		(See Also: Speech Pathology)
0405001	Broadcast Media	0607002	Communication Systems
0112018	Bulgaria	0405000	COMMUNICATIONS
0112019	Burma	0501008	Community & School Relations
0112020	Burundi	0403004	Community/Outreach Programs
0901007	Business Administration	0112029	Comoros
0901008	Business Communications	1004001	Computer Applications
0502005	Business Education	0607003	Computer Design
0901009	Business Ethics	1004003	Computer Engineering
0801004	Business Law	1004004	Computer Graphics
0203004	Cacao Products	1004005	Computer Modeling
1010004	Calculus	1004006	Computer Programming Systems/Languages
0112021	Cameroon	1004000	COMPUTER SCIENCE
0112022	Canada	1004007	Computer Software
0109004	Canary Islands	1004008	Computer Storage & Retrieval
1002014	Cancer/Carcinogenesis	1004009	Computer Systems Analysis
0203005	Candy	0901011	Computer Technology
0112023	Cape Verde	1004010	Computer Theory
0110007	Caribbean Sea	1004002	Computer-Assisted Design
0409001	Cartography	0606003	Computer-Assisted Design (Civil Engineering)
1013005	Celestial Mechanics	0609004	Computer-Assisted Design (Mechanical Engineering)
0112024	Central African Republic	0503007	Computer-Assisted Instruction
0107001	Central America	1004011	Computers & Systems, Digital
0604000	CERAMIC ENGINEERING	0606004	Concrete Structures
0320001	Ceramics (Visual Arts)	1013006	Condensed Matter
1009001	Ceramics/Refractories	0112030	Congo
0203006	Cereals	0201022	Conservation (Agriculture)
0112025	Chad	0606005	Construction Engineering
1003003	Chemical Dynamics	0606006	Construction Management
1003004	Chemical Effects (Chemical Sciences)	0404005	Consumer Behavior
0605000	CHEMICAL ENGINEERING	0502007	Consumer Education/Information
1013020	Chemical Physics	0901012	Consumer Services
1003005	Chemical Properties	0609005	Continuum Mechanics
1003000	CHEMICAL SCIENCES	1004012	Control Applications (Computer Sciences)
1003006	Chemical Synthesis	0607004	Control Systems (Electronics & Electrical Engineering)
1003007	Chemistry	0609006	Control Systems (Mechanical Engineering)
1003008	Chemistry, Analytical	1004013	Control Theory (Computer Sciences)
1003009	Chemistry, Colloid	0407001	Correctional Institutions/ Procedures
1007002	Chemistry, Environmental	1009002	Corrosion
1003010	Chemistry, Inorganic	0112031	Costa Rica
1003011	Chemistry, Nuclear		
1003012	Chemistry, Organic		
1003013	Chemistry, Petroleum		
1003014	Chemistry, Physical		
0404004	Child Development		
0403003	Children and Youth		
0112026	Chile		
0112027	China (People's Republic)		

0203009	Cottonseeds	0408000	ECONOMICS
0406000	COUNSELING/GUIDANCE	0408001	Economics, Agricultural
0503008	Counseling/Guidance (Education)	0408004	Economics, Energy
0406001	Counseling, Crisis	0408006	Economics, Health Care
0406002	Counseling, Family/Marriage	0408007	Economics, International
0406003	Counseling, Vocational	0408008	Economics, Labor
0320002	Craft Arts	0408011	Economics, Political
0304000	CREATIVE WRITING	0408012	Economics, Regional
0304001	Creative Writing, Drama	0112039	Ecuador
0304002	Creative Writing, Fiction	0500000	EDUCATION
0304003	Creative Writing, Non-Fiction	0502006	Education & Planning, Career
0304004	Creative Writing, Poetry	0503011	Education and Work
0304005	Creative Writing, Translation	0505001	Education, Adult & Continuing
0901013	Credit	0502001	Education, Agriculture
0407002	Crime Causation	0502002	Education, Alcohol
0407003	Crime Control	0503003	Education, Alternative Modes
0407007	Crime, Non-Violent/ White-Collar	0502004	Education, Art
0407004	Criminal Behavior	0503004	Education, Basic Skills
0407005	Criminal Justice	0502005	Education, Bilingual
0407000	CRIMINOLOGY	0505002	Education, Business
0406001	Crisis Counseling	0503006	Education, College Students
0305000	CRITICISM	0507001	Education, Comparative
0201023	Crop Insurance	0502008	Education, Compensatory
0201024	Crop Science	0502009	Education, Dance
0403005	Cross-Cultural	0502010	Education, Dental Health
1004014	Cryptography	0502011	Education, Driver
1009003	Crystallography	0504001	Education, Drug
0112032	Cuba	0504000	EDUCATION, ELEMENTARY/
0306000	CULTURAL ACTIVITIES	0507002	SECONDARY
0901014	Currency	0507002	Education, Emotionally Disturbed
1004015	Cybernetics	0502012	Education, Energy
0112033	Cyprus	0502013	Education, English
1002015	Cytology	0502015	Education, Environmental
0112034	Czechoslovakia	0501003	Education, Equal Opportunity
0203010	Dairy Products	0502016	Education, Foreign Languages
0201025	Dairy Science	0507003	Education, Gifted or Talented
0606007	Dams and Earth Structures	0507004	Education, Handicapped
0316001	Dance	0502017	Education, Health and Safety
1004016	Data Analysis	0504002	Education, High School
0404006	Day Care	0505000	EDUCATION, HIGHER
0404007	Death and Dying	0505003	Education, Higher - Private
0701010	Death and Dying, Health and Physical Needs	0505004	Education, Higher - Public
0320003	Decorative Arts	0503015	Education, History/ Philosophy of
0413001	Demography	0502018	Education, Home Economics
0112035	Denmark	0502019	Education, Humanities/Liberal
0701011	Dental Health and Hygiene	0502020	Education, Industrial Arts
0502009	Dental Health Education	0505005	Education, Junior and Community Colleges
0701012	Dentistry	0504003	Education, Junior High School
0701041	Dentistry, Preventive	0502021	Education, Language Arts
0307000	DESIGN ARTS	0507005	Education, Learning Disabled
0113003	Developing/Underdeveloped Nations	0502022	Education, Legal
1013007	Dielectric Properties	0502023	Education, Mathematics
0203011	Dietary Foods	0502024	Education, Medical
0404008	Disasters	0502025	Education, Metric
0503009	Discipline Problems	0504004	Education, Middle School
0112036	Djibouti	0502026	Education, Music
0112037	Dominica	0502027	Education, Nursing
0112038	Dominican Republic	0502028	Education, Nutrition
0201026	Drainage	0503010	Education, Organizational Theory and Behavior
0316002	Dramatic/Theatre Arts	0502029	Education, Physical
0320004	Drawing	0502029	Education, Physical
0502011	Drug Education	0501004	Education, Politics of
0404009	Drugs/Drug Abuse	0506000	EDUCATION, PRE-SCHOOL
1005000	EARTH SCIENCES	0501005	Education, Private and Parochial
0606008	Earthquake Engineering	0501006	Education, Public
1002016	Ecology	0502030	Education, Reading
0408002	Econometrics	0507006	Education, Remedial
0901015	Economic Development		
0309003	Economic History		
0408003	Economic Theory		

0501007	Education, Rural	1006018	Energy, Tidal
0502031	Education, Science	1006020	Energy, Wind
0502032	Education, Sex	0600000	ENGINEERING
0502033	Education, Social Science	0608001	Engineering Administration/ Management
0502034	Education, Sociology	0609010	Engineering Design
0507000	EDUCATION, SPECIAL	0606009	Engineering Geology
0502035	Education, Speech and Communication	0608002	Engineering Innovation Processes
0502036	Education, Teacher	0608006	Engineering Statistics
0501011	Education, Transfer Students	0608003	Engineering, Management
0501012	Education, Urban	0608004	Information Systems
0502037	Education, Values	0608005	Engineering, Personnel Management
0502038	Education, Vocational/ Technical	0609011	Engineering, Project Management
0501013	Education, Volunteers	0502044	Engines
0502039	Education, Writing/ Composition	1002018	English as a Second Language
0502007	Education/Information, Consumer	1007001	Entomology
0501000	EDUCATIONAL ADMINISTRATION AND POLICY	1007002	Environmental Biology
0503012	Educational Evaluation/ Assessment	0609012	Environmental Chemistry
0501001	Educational Finance	0307002	Environmental Design
0801012	Educational Law	0502015	Environmental Design/ Technology
0503000	EDUCATIONAL MODES/PSYCHOLOGY/ THEORY	1007003	Environmental Education
0414007	Educational Psychology	1009004	Environmental Effects
0503013	Educational Television	0606010	Environmental Effects (Materials Sciences)
0503014	Educational Testing/ Measurement	1007004	Environmental Engineering
0502000	EDUCATIONAL/INSTRUCTIONAL PROGRAMS	0701018	Environmental Geography
0901016	Efficiency Studies	0801013	Environmental Health
0112040	Egypt (United Arab Republic)	1007000	Environmental Law
0112041	El Salvador	0701013	ENVIRONMENTAL STUDIES
0609007	Elasticity	0608007	Epidemiology
0607005	Electric Power Conversion	1008002	Ergonomics
0607006	Electric Power Generation	0901009	Estuarine Sciences
0607007	Electric Power Transmission	0701028	Ethics, Business
0607008	Electromagnetic Propagation	0112042	Ethics, Medical
0609008	Electromechanical Systems	0104000	Ethiopia
0607000	ELECTRONICS AND ELECTRICAL ENGINEERING	0104002	EUROPE
0607001	Electronics, Applied	0104003	Europe, Eastern
0607015	Electronics, Plasma	0104005	Europe, Northern
0607020	Electronics, Solid State	0104006	Europe, Southern
1002017	Embryology	0113004	Europe, Western
0609009	Emission Control	0109005	European Common Market
0901017	Employee Benefits	0403006	Falkland Islands
1006000	ENERGY	0403007	Familial Abuse
1006001	Energy Audits	0701014	Family
1006004	Energy Conservation/ Consumption	0406002	Family Health/Planning/ Safety
1006005	Energy Conversion	0201028	Family/Marriage Counseling
0408004	Energy Economics	0201027	Farm and Ranch Management
0502012	Energy Education	0307003	Farm Machinery
1006011	Energy Planning/Policy	0609013	Fashion/Textiles Design
1006014	Energy Storage	1009005	Fatigue (Engineering)
1006015	Energy Systems	0203012	Fatigue/Fracture
1006016	Energy Technology	0201029	Feed Grains
1006019	Energy Transmission	0112043	Fertilizers
1006002	Energy, Biomass	0901018	Fiji
1006003	Energy, Chemical	0112044	Finance
1006006	Energy, Electrical	1101000	Finland
1006007	Energy, Fusion	0408005	FIRE/FLAMMABILITY STUDIES
1006008	Energy, Geothermal	0201030	Fiscal Theory/Application
1006009	Energy, Hydroelectric	0606011	Fish and Fisheries
1006010	Energy, Nuclear	0609014	Fluid Mechanics (Civil Engineering)
1006012	Energy, Renewable Resources	0308001	Fluid Mechanics (Mechanical Engineering)
1006013	Energy, Solar	0308000	Folk/Ethnic Arts
1006017	Energy, Thermal	0308002	FOLK/ETHNIC STUDIES
			Folklore and Mythology

0202001	Food Additives	0112054	Guinea
0202002	Food Analysis	0112055	Guinea-Bissau
0202019	Food and Trade Policy	0110009	Gulf of Mexico
0202003	Food Chemistry	0112056	Guyana
0202004	Food Consumption	0112057	Haiti
0202005	Food Distribution	0404011	Halfway Programs
0202006	Food Drying	0403008	Handicapped/Disabled
0202007	Food Engineering	0114004	Hawaii
0202008	Food Labeling	0700000	HEALTH AND SAFETY
0202009	Food Management	0502017	Health and Safety Education
0202010	Food Manufacturing	0701016	Health Care
0202011	Food Marketing	0701017	Health Care Administration
0202012	Food Practices	0408006	Health Care Economics
0202013	Food Preparation	0701019	Health Facilities Studies
0202014	Food Preservation	0701020	Health Insurance
0202015	Food Processing	0701021	Health Maintenance
0202016	Food Safety	0701022	Organizations
0202000	FOOD SCIENCES	0701023	Health Manpower/Professions
0404010	Food Stamps	0701025	Health Planning/Policy
0202017	Food Storage	0701026	Health Records
0202018	Food Technology	0701015	Health Services Delivery
0203000	FOODS	0701018	Health, Allied Fields
0202020	Foods, Frozen	0701024	Health, Environmental
0201031	Forest Economics	0609017	Health, Radiation Effects
0201032	Forestry and Woodlands	0609018	Heat Transfer
1006021	Fossil Fuels	1002020	Heating, Ventilation and
0609015	Fracture	0108001	Air Conditioning
0112045	France	0108002	Hemisphere, Eastern
0112046	French Guiana	0108003	Hemisphere, Northern
0203013	Fruits	0108004	Hemisphere, Southern
1006022	Fuel Cells	0201034	Hemisphere, Western
0112047	Gabon	1002020	Herbicides
0109006	Galapagos Islands	1013011	Herpetology
1013008	Galaxies, Stellar Systems	0403009	High Pressure Sciences
0112048	Gambia	1002021	Hispanics
0609016	Gas Turbines	0309000	Histology
1002019	Genetics	0309004	HISTORY
1005002	Geochemistry	0309005	History & Appreciation of Art
1005003	Geodesy	0309006	History & Appreciation of Music
0409002	Geographic Quantitative Methods	0309007	History of Law
0409000	GEOGRAPHY	0309008	History of Philosophy
0409003	Geography, Economic	0309001	History of Science
1007004	Geography, Environmental	0309002	and Technology
0409004	Geography, Linguistic	0309003	History, Ancient/Classical
1005004	Geography, Physical	0309009	History, Byzantine
0409005	Geography, Political	0309010	History, Economic
0409006	Geography, Social	0309011	History, Medieval
0409007	Geography, Urban	0309012	History, Modern
1005005	Geology	0503015	History, Oral
1005006	Geology, Coastal	0112058	History, Renaissance
1005007	Geology, Economic	0201035	History/Philosophy
1005008	Geology, Marine	0404012	of Education
1005009	Geology, Physical	0901019	Honduras
1005010	Geology, Structural	1102000	Horticulture
1010006	Geometry	0110010	Hospices
1005011	Geomorphology	0608008	Hotel & Restaurant Management
1013009	Geophysics	0413002	HOUSING
0606012	Geotechnical Engineering	0310001	Hudson Bay
0112049	German Democratic Republic (East Germany)	0310000	Human Factors Engineering
0112050	Germany, Federal Republic of (West Germany)	0502019	Human Reproduction/Fertility
0112051	Ghana	0112059	Humanities Planning/Policy
1005012	Glaciology	0606013	HUMANITIES, GENERAL/OTHER
0412002	Government Regulations	1005013	Humanities/Liberal Education
0412003	Government Studies	0112060	Hungary
0201033	Grains	1002022	Hydraulic Engineering
0307004	Graphic Design	0403010	Hydrology
1013010	Gravitation	0403011	Iceland
0112052	Greece	1002023	Ichthyology
0109007	Greenland	0112061	Illegal Aliens
0109008	Guam	0110011	Immigrants
0112053	Guatemala	0112062	Immunology
			India
			Indian Ocean
			Indonesia

0609019	Industrial Design	0312011	Language and/or Literature, Renaissance
0608000	INDUSTRIAL ENGINEERING	0312012	Language and/or Literature, Translation
0608009	Industrial Relations	0112076	Laos
0608010	Industrial Systems Engineering	0607009	Lasers (Engineering)
0901020	Industry	1013014	Lasers and Masers (Physical Sciences)
1004017	Information Science/Systems	0113005	Latin America
1004018	Information Theory	0800000	LAW
0403012	Inner-City	0801021	Law Enforcement
0503016	Instructional Materials and Practices	0309006	Law History
0503017	Instructional Television	0801001	Law, Administrative
1013012	Instrumentation & Techniques (Physical Sciences)	0801002	Law, Agricultural
1002024	Instrumentation, Biological	0801003	Law, Banking
1005014	Instrumentation, Earth Sciences	0801004	Law, Business
1004019	Instrumentation, Medical (Computer Sciences)	0801005	Law, Civil
1014001	Instrumentation, Scientific	0801006	Law, Communications
0901021	Insurance	0801007	Law, Constitutional
0307005	Interior Design	0801009	Law, Consumer
0201036	International Agriculture	0801010	Law, Corporate
0408007	International Economics	0801011	Law, Criminal
0412004	International Relations	0801012	Law, Domestic Relations
0901022	International Trade & Finance	0801013	Law, Educational
1013013	Interstellar Studies	0801014	Law, Environmental
0901023	Investments and Securities	0801015	Law, Forensic
0112063	Iran	0801016	Law, Housing
0112064	Iraq	0801017	Law, Immigration
0112065	Ireland	0801019	Law, International and Comparative
0201037	Irrigation	0801020	Law, Juvenile
0112066	Israel	0801022	Law, Labor
0112067	Italy	0801023	Law, Maritime
0112068	Ivory Coast	0801024	Law, Military
0112069	Jamaica	0801025	Law, Mining
0112070	Japan	0901024	Law—Patents, Copyrights, Trademarks
0110012	Japan, Sea of	0503018	Leadership
0320005	Jewelry/Metal Arts	0112077	Learning Motivation
0112071	Jordan	0502022	Lebanon
0313002	Journalism	0112078	Legal Education
0801018	Judicial/Law Administration	0112079	Lesotho
0311000	JURISPRUDENCE	1004020	Liberia
0407006	Juvenile Delinquency	1103000	Library Automation
0112072	Kampuchea (Cambodia)	0112080	LIBRARY SCIENCE
0112073	Kenya	1002025	Libya
0112074	Korea	0410000	Limnology
0112075	Kuwait	0503019	LINGUISTICS
0408008	Labor Economics	0305002	Literacy
0201038	Land Management	0312004	Literary Criticism
1007006	Land Pollution	0201039	Literature, Comparative
0307006	Landscape Architecture/Design	1010007	Livestock
0606014	Landslides	1013015	Logic
0312000	LANGUAGE AND/OR LITERATURE	1015003	Low Temperature Sciences
0312002	Language and/or Literature, Classical Greek	0112081	Lunar Sciences
0312003	Language and/or Literature, Classical Latin	0609020	Luxembourg
0312001	Language and/or Literature, Classical/Ancient	1004021	Machine Design
0312005	Language and/or Literature, Drama	0408009	Machine Translation
0312006	Language and/or Literature, Fiction	0112082	Macroeconomics
0312007	Language and/or Literature, Medieval	1013016	Madagascar
0312008	Language and/or Literature, Modern	0609021	Magnetics
0312009	Language and/or Literature, Non-Fiction	0112083	Magnetohydrodynamics
0312010	Language and/or Literature, Poetry	0112084	Malawi
		0112085	Malaysia
		0112086	Maldives
		0112087	Mali
		1002026	Malta
		0901025	Mammalogy
		0901026	Management Information Systems
		0900000	Management Sciences
		0901027	MANAGEMENT/COMMERCE
			Manpower Research

0609022	Manufacturing (Mechanical Engineering)	0112092	Morocco
0608011	Manufacturing Processes (Industrial Engineering)	0112093	Mozambique
0319002	Manuscripts/Books/Music Scores	0314000	MUSEUMS
0109009	Mariana Islands	0315000	MUSIC
0609023	Marine Engineering	0316003	Music Composition
1008000	MARINE SCIENCES	0316004	Music Conducting
0901028	Marketing	0305003	Music Criticism
0201040	Marketing Agreements (Agriculture)	0502026	Music Education
0901029	Marketing Research	0309005	Music History & Appreciation
0606015	Materials Engineering	0316005	Music, Instrumental
1009009	Materials Processing and Finishing	0316006	Music, Vocal
0610001	Materials Processing Engineering	0315001	Musicology/Music Theory
0606017	Materials Recovery	1002028	Mutagenics
0606018	Materials Science (Engineering)	1002029	Mycology
1009000	MATERIALS SCIENCES	0112094	Namibia
0606019	Materials Testing	0403014	Native Americans
1009006	Materials, Amorphous	0607012	Navigation & Guidance Systems
1009007	Materials, Composite	0112095	Nepal
0606016	Materials, Engineering Properties	0112096	Netherlands
1009008	Materials, Polymeric	1002030	Neuroscience
0701027	Maternal and Child Health	0114006	New England
1010008	Mathematical Foundations	0112097	New Zealand
0100000	MATHEMATICS	0112098	Nicaragua
0502023	Mathematics Education	0112099	Niger
1010003	Mathematics, Applied	0112100	Nigeria
1010005	Mathematics, Finite	0113006	Non-Aligned/Third World Nations
0112088	Mauritania	0407007	Non-Violent/White-Collar Crime
0203014	Meat and Meat Products	0105000	NORTH AMERICA
0202021	Meat Inspection	0110014	North Sea
0609000	MECHANICAL ENGINEERING	0112101	Norway
1009010	Mechanical Properties (Materials Sciences)	1003011	Nuclear Chemistry
0609024	Mechanical Systems	1006010	Nuclear Energy
0609025	Mechanics	0609027	Nuclear Engineering
0313000	MEDIA ARTS	1012001	Nuclear Fission
0609026	Medical Devices Engineering	0606021	Nuclear Materials Transport
0701028	Medical Ethics	1012002	Nuclear Medicine
0701042	Medicine, Preventive	1013023	Nuclear Physics
0110013	Mediterranean Sea	1012004	Nuclear Safety
0701029	Mental and Emotional Health	1012000	NUCLEAR SCIENCES
1009011	Metallurgy	0609028	Nuclear Technology
1009012	Metallurgy, Extractive and Process	0606022	Nuclear/Radioactive Waste Disposal
1001005	Meteorology	1012003	Nuclear/Radioactive Wastes
0502025	Metric Education	1010009	Number Theory
0112089	Mexico	1010010	Numerical Analysis
1002027	Microbiology	0606020	Numerical Models
0408010	Microeconomics	0701031	Nurse Practitioner
0607010	Microelectronics	0201043	Nursery Stock
0607011	Microwave Theory	0701032	Nursing
0103004	Middle East	0502027	Nursing Education
0701030	Midwifery	0701033	Nursing Homes
0201041	Migrant Labor	0202028	Nutrition Education
0413003	Migration	0203015	Nutrition/Dietetics
0201042	Migratory Animals and Birds	0701034	Nuts
1104000	MILITARY SCIENCES/MILITARY HISTORY	1011001	Occupational Safety & Health
1005015	Mineral Resources	1006023	Ocean Mining
1005016	Mineralogy	0106000	Ocean Thermal Gradients
1011000	MINING	1008003	OCEANIA (Including Australia)
0610000	MINING ENGINEERING	1008004	Oceanographic Facilities
0403013	Minorities and Disadvantaged	1008005	Oceanography
0901030	Minority/Woman-Owned Business	1008006	Oceanography, Biological
1002008	Molecular Biology	0203016	Oceanography, Physical
0112090	Monaco	0203017	Oils and Fats
0112091	Mongolia	0112102	Oilseeds
		0316007	Oman
		0901031	Opera/Musical Theatre
		0608012	Operations Research
		1010011	Operations Research (Engineering)
			Operations Research (Mathematics)

0607013	Optical Communications	0411002	Planning/Policy, National
1013017	Optics	0411003	Planning/Policy, Public
0701035	Optometry	0411004	Planning/Policy, Regional
1003012	Organic Chemistry	0411006	Planning/Policy, Rural
0417003	Organizational Theory & Behavior	1014002	Planning/Policy, Science
0901032	Organizational Theory & Behavior (Mgmt./Comm.)	1016003	Planning/Policy, Technology
1002031	Ornithology	0606042	Planning/Policy, Transportation Engineering
1100000	OTHER	0411007	Planning/Policy, Urban
0109010	Pacific Islands Trust Territory	1002035	Plant Breeding
0110015	Pacific Ocean	1002036	Plant Diseases/Pathology
0701036	Pain	1002037	Plant Genetics
0320006	Painting	1002038	Plant Nutrition
0112103	Pakistan	1002039	Plant Physiology
1005017	Paleontology	1002040	Plant Sciences
0112104	Panama	1002041	Plant Virology
0112105	Papua New Guinea	0201046	Plant/Soil Nutrient Bioavailability
0112106	Paraguay	0609029	Plasticity
0414010	Parapsychology	0503021	Play
1002032	Parasitology	0701040	Poison Control
0503020	Parent Involvement	0112109	Poland
0901033	Parks & Recreation Management	0412005	Political Behavior
0701037	Patient Care and Education	0408011	Political Economics
0607014	Pattern & Character Recognition (Engineering)	0412000	POLITICAL SCIENCE
1004022	Pattern Recognition (Computer Sciences)	0412006	Political Theory
0606023	Pavements	0201047	Pollen and Pollination
1105000	PEACE/AMNESTY	1007005	Pollution, Air
0316000	PERFORMING ARTS	1007006	Pollution, Land
0901034	Personnel	1007007	Pollution, Noise
0112107	Peru	1007008	Pollution, Water
0201044	Pest Management	1009013	Polymer Science
0201045	Pesticides	0109011	Polynesia
1003013	Petroleum Chemistry	0413004	Population Biology
0611009	PETROLEUM ENGINEERING	0413005	Population Control
1005018	Petroleum Science	0413000	POPULATION STUDIES
1005019	Petrology	0112110	Portugal
0701038	Pharmacology	0203018	Poultry Products
0701039	Pharmacy	0201048	Poultry Science
0112108	Philippines	0404013	Poverty and the Poor
0317000	PHILOSOPHY	1001006	Precipitation
0309007	Philosophy, History of	0901036	Price Change
0503015	Philosophy/History of Education	0320007	Print Making
0313003	Photography	0405002	Print Media
1002033	Photosynthesis	1010012	Probability
1003014	Physical Chemistry	1001007	Probes and Satellites, Atmospheric
1013000	PHYSICAL SCIENCES	1015004	Probes and Satellites, Space
1013018	Physics	0605001	Process Development Engineering
1013019	Physics, Atomic	0201049	Production Economics and Management (Agriculture)
1013020	Physics, Chemical	0608013	Production/Engineering
1013021	Physics, Elementary Particle	0609030	Propulsion
1013022	Physics, High Energy	0414012	Psychobiology
1013023	Physics, Nuclear	0414000	PSYCHOLOGY
1013024	Physics, Particle	0414001	Psychology, Analytical
1013025	Physics, Plasma	0414002	Psychology, Applied
1013026	Physics, Radiation	0414003	Psychology, Behavioral
1013027	Physics, Solar	0414004	Psychology, Clinical
1013028	Physics, Solid State	0414006	Psychology, Developmental
1013029	Physics, Theoretical	0414007	Psychology, Educational
1002034	Physiological Processes	0414008	Psychology, Humanistic
1013030	Planetary Studies	0414009	Psychology, Industrial
0411000	PLANNING/POLICY STUDIES	0414011	Psychology, Physiological
0201007	Planning/Policy, Agricultural	0414014	Psychology, Social
1006011	Planning/Policy, Energy	0414013	Psychometrics
0701023	Planning/Policy, Health	0901037	Public Administration
0310001	Planning/Policy, Humanities	0701043	Public Health
0411001	Planning/Policy, International	0411003	Public Planning/Policy
0901035	Planning/Policy, Management/Commerce	0901039	Public Relations
		1004023	Publishing, Electronic
		0901040	Purchasing/Procurement

0112111	Qatar	0502032	Sex Education
0608014	Quality Control (Engineering)	0404018	Sex Roles
0901041	Quality/Product Control	0112118	Seychelles
0404014	Racism/Race Relations	0112119	Sierra Leone
0607016	Radar	0112120	Singapore
1002009	Radiation Biology	0901043	Small Business
0313004	Radio	0404019	Smoking Behavior
1013031	Radiosources, Infrared, X-Ray, Gamma Ray	0417004	Social Measurement and Indicators
0607017	Range and Tracking Systems	0416000	SOCIAL SERVICES
0201050	Range Management	0404017	Social Services Delivery
0404015	Rape/Sexual Abuse	0417005	Social Stratification/Mobility
0901042	Real Estate	1002043	Sociobiology
1106000	RECREATION & LEISURE STUDIES	0417006	Sociological Theory
0110016	Red Sea	0417000	SOCIOLOGY
0403015	Refugees	0502034	Sociology Education
0307007	Regional/Urban Design	0417001	Sociology, Applied
0415000	REHABILITATION/THERAPY	0417002	Sociology, Comparative
0415001	Rehabilitation/Therapy, Emotional/Social	0606027	Soil Mechanics & Foundations
0415002	Rehabilitation/Therapy, Occupational/Vocational	0201052	Soil Sciences
0415003	Rehabilitation/Therapy, Physical	0201053	Soil Sciences, Conservation
1013032	Relativity	0201054	Soil Sciences, Erosion
0608015	Reliability (Engineering)	0201055	Soil Sciences, Soil Genesis
0318000	RELIGIOUS STUDIES	0606028	Soil/Structure Interaction
1001008	Remote Sensing (Atmospheric Sciences)	0609032	Solar Heating
1005020	Remote Sensing (Earth Sciences)	1013033	Solar Studies
0607018	Remote Sensing (Electronics & Electrical Engineering)	0609033	Solid Mechanics
1002042	Reproduction	0606029	Solid Waste Disposal
0319000	RESTORATION AND PRESERVATION	0112121	Solomon Islands
0411005	Risk Analysis	0112122	Somalia
0607019	Robotics (Electronics & Electrical Engineering)	0112123	South Africa
0609031	Robotics (Mechanical Engineering)	0107000	SOUTH AMERICA
0606024	Rock Mechanics	0113007	Soviet Bloc
0112112	Romania	0112124	Soviet Union (USSR)
0112113	Rwanda	1015000	SPACE SCIENCES
0701044	Safety	0112125	Spain
0112114	Saint Lucia	1013034	Spectroscopy
0109012	Samoa	0701045	Speech Pathology (See Also: Communication Disorders)
0606025	Sanitary Engineering	0203020	Spices and Flavorings
0606026	Sanitary Engineering, Environmental Impacts	0112126	Sri Lanka (Ceylon)
0112115	Sao Tome & Principe	1010013	Statistics
0112116	Saudi Arabia	0901044	Statistics, Business
0104004	Scandinavia	0606030	Steel Structures
0501009	School Desegregation	0201056	Stockyards
0404016	School Food Programs	1005023	Stratigraphy
0501010	School Organization	0701046	Stress
1000000	SCIENCE & TECHNOLOGY/ MATHEMATICS/ COMPUTER SCIENCE	0606031	Structural Analysis
0502031	Science Education	0606032	Structural Design
1014002	Science Planning/Policy	0606033	Structural Dynamics
1014000	SCIENCE, GENERAL/OTHER	0606034	Structural Engineering
0320008	Sculpture	0319003	Structural/Architectural Restoration & Preservation
1008007	Sea Water Properties	0606035	Structure Reliability
0203019	Seafood	0112127	Sudan
1005021	Sedimentology	0203021	Sugar
0201051	Seed Production	0404020	Suicide
1005022	Seismology	1009014	Superconductivity (Materials Sciences)
0112117	Senegal	0112128	Superconductivity (Physical Sciences)
0307008	Set/Theatre Decoration/Design	0607021	Suriname
		0404021	Surveillance Systems
		0112129	Surveys
		0112130	Swaziland
		0112131	Sweden
		1013036	Switzerland
			Synchrotron Radiation

0112132	Syria	0608016	Value Engineering
0607022	Systems Engineering	0203023	Vegetables
0112133	Taiwan (Nationalist China)	0112147	Venezuela
0112134	Tanzania	1002044	Vertebrate Physiology
0901045	Taxes and Taxation	0403016	Veterans
0203022	Tea	0201058	Veterinary Medicine
0503022	Teacher Attitudes	0201059	Veterinary Toxicology
1016000	TECHNOLOGY	0407008	Victimization/Compensation
1016002	Technology Assessment	0112148	Vietnam
1016003	Technology Planning/Policy	0404023	Violent Behavior
1016004	Technology Transfer	1002045	Viral Studies
1016001	Technology, Appropriate	0109013	Virgin Islands
1005024	Tectonics	1002046	Vision
1016005	Telecommunications	0320000	VISUAL ARTS
0607023	Telemetry	0406003	Vocational Counseling
0404022	Terrorism	0403017	Volunteers
0320009	Textile/Weaving Arts	0501013	Volunteers (Education)
1017000	TEXTILES	0606022	Waste Disposal, Nuclear/ Radioactive
0112135	Thailand	0606029	Waste Disposal, Solid
0305004	Theatre/Film Criticism	0201060	Waste Management (Agriculture)
1013037	Thermodynamics	0606045	Waste Water Treatment
0609034	Thermodynamics Engineering	1012003	Wastes, Nuclear/Radioactive
1006024	Thermosciences	1007008	Water Pollution
0609035	Thermosciences Engineering	0201061	Water Resources (Agriculture)
0112136	Tibet	0606046	Water Resources (Engineering)
0201057	Tobacco	0606047	Water Resources Management/ Planning
0112137	Togo	1007010	Water Resources, Environmental Impacts
1010014	Topology	0606048	Water Supply
1007009	Toxicology	0606049	Water Treatment
0606036	Traffic Engineering	0606050	Waterways and Harbors
0701047	Traffic Safety	1001009	Weather Modification
0606037	Transportation Engineering	0201062	Weed Sciences
0606038	Transportation Engineering Design	0109014	West Indies
0606039	Transportation Engineering Economics	0201063	Wildlife
0606042	Transportation Engineering Planning/Policy Studies	0403018	Women
0606040	Transportation Engineering, Environmental Impacts	0201064	Wood
0606041	Transportation Engineering, Intermodal Studies	1004024	Word/Text Processing (Computer Sciences)
0606043	Transportation Surveys	0901047	Word/Text Processing (Management/Commerce)
0701048	Trauma	0404024	Work Motivation
1010015	Trigonometry	0110017	Yellow Sea
0112138	Trinidad and Tobago	0112149	Yemen
0112139	Tunisia	0112150	Yugoslavia
0606044	Tunnels	0112151	Zaire
0609036	Turbomachinery	0112152	Zambia
0112140	Turkey	0112153	Zimbabwe (Rhodesia)
0112141	Uganda	1002047	Zoology
0607024	Ultrasonic Technology		
0605002	Unit Operations Engineering		
0112142	United Arab Emirates		
0112143	United Kingdom (Great Britain and Northern Ireland)		
0112144	United States		
0114002	United States, Atlantic Central		
0114003	United States, Great Lakes		
0114005	United States, Midwest		
0114007	United States, Northeast		
0114008	United States, Northwest		
0114009	United States, Southeast		
0114010	United States, Southwest		
1107000	UNIVERSITY/INDUSTRY		
	COOPERATIVE ACTIVITIES		
0112145	Upper Volta		
0112146	Uruguay		
0901046	Utilities		

KEYWORD THESAURUS PROJECT NEWSLETTER - January 19, 1983

Dear KT Participants:

The beginning of the New Year seems an appropriate time to take stock of where we are in the Keyword Thesaurus Project. This letter is being sent to all participants to update you on the status of this project.

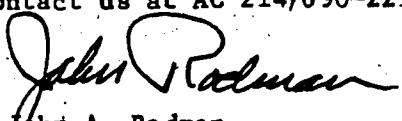
Agency representatives and university consultants met briefly in Washington in November and clarified some points on coding and procedures. Dr. Lynn Carroll Carroll is implementing this project at NSF and reported that, to his surprise, the NSF Program Officers were enthusiastic about the project and even though the coding was time-consuming, they liked the idea of the thesaurus and standardizing keywords and codes. The tone of the meeting was very positive, and both university and government participants were quite optimistic about the progress to date and the potential benefits of this program.

The first coded program announcement was that of NEH's Division of Education Programs. NSF has coded a number of program announcements, and we should be seeing those very soon. The NSF Bulletin for February will be coded and will also contain a very short description of the project by way of explaining the significance of the codes to those who are not participating in the project. NEH will also publish a very brief explanation in its publications. NIE will also be coding its announcements in the near future. NSF will not be coding its RFP's, since only five percent of them go to academic institutions, while the remaining ninety-five percent go to business or industrial firms.

NSF has awarded the project an additional \$6,000 to enable us to increase the number of colleges and universities participating in the project. Approximately 130 institutions have requested and received copies of the Thesaurus. In an effort to increase the level of participation, we sent out fliers to everyone on the mailing list of The National Council of University Research Administrators (NCURA) - about 1,600 persons. (Some of you who are already participating may have received a copy of the flier.) We have received over 200 additional requests to participate in the project, and we hope to have a total of 350 participants. We are quite pleased with the response of the college and university research offices.

Recent conversations with OMB officials regarding possible governmentwide implementation of the Keyword Thesaurus were quite encouraging. Depending upon the success of the current project, number of participants, savings, etc., we may finally get an OMB circular that colleges and universities support.

For those of you who have not yet returned your Evaluation Forms, let me urge you to get those in to me in the near future. Also, please take the time to make suggestions for improvements in the Thesaurus. We hope that your record-keeping will require very little staff time, but it will be crucial to this project. We need everyone's help to make the project as successful as possible. We appreciate your participation and hope that the Keyword Thesaurus Project will prove very beneficial to your institution. If you have any questions, suggestions, comments, etc., please contact us at AC 214/690-2211.


John A. Rodman
Project Director

KEYWORD THESAURUS PROJECT NEWSLETTER - June 21, 1983

Dear KTP Participants:

To date, we have sent the Keyword Thesaurus to just over 700 persons who requested it in behalf of colleges and universities, libraries, publishing houses, and business firms. We ask you to continue evaluating the project through December 31, 1983. We will need your support in the form of suggestions for revisions as well as your evaluation of the effectiveness of the Thesaurus in helping you to identify the content of coded vs. uncoded announcements and to match the announcements to the appropriate faculty members.

A number of medical schools and several hospitals requested the Thesaurus, but found that it would be of limited use to them since it contains few medical terms. I plan to visit with NIH representatives in Bethesda on June 27 to discuss including a list of medical terms in a revised Thesaurus. When I talked with QMB officials in January, they indicated that at least two requirements must be fulfilled before government-wide implementation of the Thesaurus could be possible:

- (1) We must present them with a more comprehensive Thesaurus (i.e., one that includes medical terms), and
- (2) We must obtain the support of the various higher education organizations at 1 Dupont Circle in Washington.

Most of you probably saw the NSF article on the Thesaurus (NSF Bulletin, February, 1983, page 1). Items began to be coded in the April issue, and several NSF program announcements have also appeared with the codes attached. For those of you who may not have seen them, below are a few examples taken from the June, July, August Bulletin:

June 1, 1983. U.S.-Federal Republic of Germany Cooperative Science. Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact Dr. Warren Thompson, Division of International Programs (357-9700). [P.T. 34, 42, 48; Loc. 0112050; K.W. 0400000, 0600000, 1000000]

Aug. 1, 1983. Anthropology. For research beginning after Feb. 1, 1984. Contact Dr. Stephen Brush, Division of Behavioral and Neural Sciences (357-7804). [P.T. 34; K.W. 0401000]

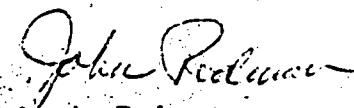
Aug. 1, 1983. Very Large Scale Integration (VLSI) Fast Turnaround Fabrication Service for Universities. (Brochure NSF 83-43). Contact Dr. Andrew Molnar, Office of Scientific and Engineering Personnel and Education (357-7539). [P.T. 18, 34, 40; K.W. 0502031, 0607000, 1004000]

Aug. 3, 1983. Information Science and Technology. Special research initiation awards for new investigators. (Brochures NSF 81-34 and NSF 81-69). Contact Dr. Edward Weiss, Division of Information Science and Technology (357-9572). [P.T. 34; K.W. 1004017, 1004018, 1004022, 1004024]

Let me once again urge those of you who have not returned the Background Information section of the Evaluation Forms, to get those two pages to us at your earliest convenience.

Our thanks to all those who have taken the time to send us your comments and suggestions. We will go over your feedback very carefully in attempting any future revisions. Your assistance and support on both the revisions and implementation of the Thesaurus are needed if we are to have a comprehensive government-wide document to assist all of us.

Have a good summer.


John A. Rodman
Project Director

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KEYWORD THESAURUS PROJECT UPDATE
FOR NEW PARTICIPANTS
March 24, 1983

Dear KTP Participants:

The enclosed materials are identical to those sent last summer to the 130 institutions who first requested the Keyword Thesaurus. Approximately 300 institutions have already requested and received the Thesaurus and this week we are mailing out 150 more. We are sending them to everyone who requested them (one per institutional unit), including medical schools, although the Thesaurus does not contain any biomedical terms. Perhaps some future version will include terms and codes suitable for NIH announcements.

We realize, of course, that not everyone who receives the Thesaurus will actually participate in the project, but we hope that most of you will choose to be a part of the experiment. Since it took longer than anticipated for all of us - agencies and institutions - to gear up, it appears that an extension of the project will probably be requested in order to give the project a fair trial period.

Please send us the 2-page Questionnaire at your earliest convenience. The first shipment of the monthly worksheets will be due on June 30. Please take the time to make suggestions for improvements in the Thesaurus. We hope that your recordkeeping will require very little staff time, but it will be crucial to this project. We need everyone's help to make this project as successful as possible. We appreciate your participation and hope that the Keyword Thesaurus Project will prove very beneficial to your institutions. If you have any questions, suggestions, comments, etc., please contact us at AC 214/690-2211.

Depending upon the success of the current project, number of participants, savings, etc., we may finally get an OMB circular that colleges and universities support.

John Rodman
John A. Rodman
Project Director

June 28, 1982

Dear Colleague:

Attached at long last is your copy of the Keyword Thesaurus developed under an NEH/NSF grant, along with the evaluation Questionnaire and record keeping form. First, I want to thank you personally for agreeing to participate in this experimental project and we hope this effort will be very beneficial to your University.

The Thesaurus includes over 1200 "research" terms divided into ten major disciplines, an alphabetical listing of terms, a seven digit code for each term, an Introduction to describe the usage of the Thesaurus, and a list of program types along with their codes.

Secondly, we feel that this is a comprehensive thesaurus but are also requesting your help in improving its value for the user. In order to evaluate the effectiveness of this project and to determine possible government-wide implementation it will be necessary for you to help us by completing the Evaluation Questionnaire:

Section I 'Background Information should be completed and returned no later than September 1, 1982.

Sections II and III should be completed at the termination of the project and forwarded to UTD by October 31, 1983.

The monthly worksheets should be completed and forwarded to UTD on a quarterly basis (December 31, 1982; March 31, 1983; June 30, 1983; September 30, 1983).

Please send all information to:

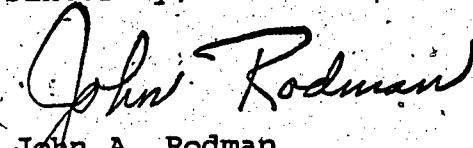
Ms. Elizabeth Hudson
Office of Sponsored Projects FN 3.1
The University of Texas at Dallas
P. O. Box 688
Richardson, Texas 75080

The Faculty Evaluation is a suggested form to get recipient input and value. You may prefer to develop your own form or use another instrument to obtain this information. (NOTE: It is very important that we receive some type of evaluation from the faculty, department chairmen and deans.) A summary should be forwarded along with Sections II and III by October 31, 1983.

Thirdly, NSF, NEH and NIE have a copy of the Thesaurus and are commencing keywording and coding of program announcements, RFP's, etc. Due to the lead time in government printing it will probably be October before these printed documents reach your office; therefore, October 1 will be the effective date for you to begin record keeping for this project. We hope that during July, August and September you will be developing your faculty profiles based on this Thesaurus and can begin implementation October 1, 1982.

Finally, we feel that staff time for record keeping is minimal but essential to determine the success of the project and government wide implementation. Again, thanks for your participation, good luck, and if you have any questions please contact me at 214/690-2211.

Sincerely,



John A. Rodman
Director

EVALUATION

UTD 6/82

NSF/NEH Funded Pilot Project

"The Development and Implementation of a Keyword Thesaurus"

QUESTIONNAIRE

Name of Respondent _____

Title of Respondent _____

Institution _____

Address _____

Phone No.: _____

I. BACKGROUND INFORMATIONA. Institution

Number of students FY '82

FTE

Headcount

(a) Undergraduate _____

(b) Graduate & Professional _____

Number of Faculty: Full Time _____

Part Time _____

B. Sponsored Funds Volume

FY81

FY82

Number of Proposals _____

Number of Awards _____

\$ Amount of Externally Funded Research: _____

Total \$ Amount of Sponsored Activity: _____

C. Office of Sponsored Projects

Number of Office Staff (FTE)

FY81

FY82

Professional Staff: _____

Secretarial/Clerical: _____

Students: _____

Office Budget (optional) \$ _____

\$ _____

\$ _____

Office reports to:

(a) Graduate Dean _____

(d) VP/VC Research _____

(b) VP Academic Affairs/Provost _____

(e) President _____

(c) VP/VC Business Affairs _____

(f) Other _____

D. During the past year, what portion of the office staff effort was spent in the review and dissemination of program announcements:

Total FTE Headcount

E. Please check which services the Research Office provides:

Pre-Award

- a) Proposal Development _____
- b) Resource Identification _____
- c) Newsletter/Info. Dissemination _____
- d) Proposal Typing _____
- e) Editing/Writing Assistance _____
- f) Budgeting _____
- g) Monitoring Proposal Submission _____
- h) Proposal Processing/ Mailing _____
- i) Negotiations _____
- j) Agency Liaison _____
- k) Other (please identify) _____

Post-Award

- a) Establishing Accounts _____
- b) Reports _____
- c) Monitoring Expenditures _____
- d) Budget Revisions _____
- e) Expense Summaries _____
- f) Indirect Cost Neg. _____
- g) Audit Disallowances _____
- h) Other (please list) _____

II. KEYWORD THESAURUS:

A. Comprehensiveness of Thesaurus: Are the major terms of interest to you included?

1. Please indicate how comprehensive you found the Thesaurus:

0	1	2	3	4	5	6	7	8	9	10	
Not at all					Moderately			Comprehensive			
Comprehensive					Comprehensive						

2. Specific Comments: Please attach a list of any subject areas you feel should be added, deleted, or substituted.

B. Wording of Terms in the Thesaurus: Are the terms in the Thesaurus adequately descriptive and precise?

1. Please indicate your estimation of the descriptive wording of the terms.

0	1	2	3	4	5	6	7	8	9	10	
Low					Medium			High			

2. Do you feel that the terms in the Thesaurus are (check one):

Not specific enough
 Adequate
 Too specific

3. Specific comments: Please attach a list of any terms which you feel are ambiguous, too broad, or too specific/limited.

C. Organization and Coding of Thesaurus: Are the terms appropriately organized and coded?

1. Please indicate your estimation of the organization and coding of the Thesaurus:

0	1	2	3	4	5	6	7	8	9	10	
Low					Medium			High			

D. Overall Value of Thesaurus:

Please indicate your judgement of the overall value of the Thesaurus:

0	1	2	3	4	5	6	7	8	9	10	
Not at all					Moderately			Very			
Valuable					Valuable			Valuable			

If of low value, explain why:

E. Please list any problems you experienced in using the Thesaurus:

F. Other uses of Thesaurus:

Please check current or planned uses of terms in Thesaurus:

	<u>Current</u>	<u>Planned</u>
1. Proposal/Award Statistics	_____	_____
2. Assuming a database of faculty expertise, using terms or codes in Thesaurus:		
a. Faculty Research Directory	_____	_____
b. Donor Gifts to University	_____	_____
c. Speakers Bureau	_____	_____
d. Consultants Bureau	_____	_____
e. Site Visits	_____	_____
f. Campus Visitors	_____	_____
g. Identification of Appropriate Faculty for Graduate Students' Assistance	_____	_____
3. Other uses (Please specify):		

III. KEYWORD PROJECT EVALUATION

A. How did you match terms from the Keyword Thesaurus to your faculty's expertise?

Card File
 Human Resource
 Other

Computerized System:
 Word Processor
 Micro/Mini Computer
 Main Frame Computer

B. In your opinion, did the project provide an overall enhancement in your ability to disseminate information?

Yes No

If yes, was the information:

(a) More appropriately targeted? Yes No

(b) More timely? Yes No

Comments:

C. What reactions, if any, have you received from your faculty?

(Note: This is very important input if we are to implement this program government-wide. A brief faculty questionnaire is attached for your information and use.)

D. In your opinion, how effective were the federal agencies in appropriately keywording and coding each announcement?

0	1	2	3	4	5	6	7	8	9	10
Ineffective										Very Effective

Please comment by specific agency:

E. Organizational Impact:

How has the utilization of the keyword system affected your organizational structure or processes (e.g., shift in responsibility or level of resource identification, reorganization of office, time savings)? Has it had a financial impact?

F. Summary of Records kept during project:

	<u>Coded</u>	<u>Uncoded</u>	
1. Number of announcements read	_____	_____	
2. Number of individual announcements forwarded	_____	_____	
3. Number of persons sent announcements	_____	_____	
4. Your overall perception of handling announcements	<u>Coded</u>	<u>No difference</u>	<u>Uncoded</u>

(a) Easier (mark one column) _____

(b) Faster (mark one column) _____

Comments:

G. Would you find it helpful to have all federal RFP's and program announcements coded?

Yes _____ No _____ No opinion _____

H. Please rate the overall value of the project:

0	1	2	3	4	5	6	7	8	9	10
Not at all Valuable			Moderately Valuable			Very Valuable				

I. Additional comments are welcome.

FACULTY EVALUATION
OF
INFORMATION DISSEMINATION SERVICES

1. Are you included in a database for dissemination of information on research, demonstration, training, service, and fellowship awards?
2. Approximately how many such notices have you received since (date)?

Of these, what percentage came from the following sources:

Research Administration Office
 Dean/Department Head/Program Head
 Colleagues
 Other (please specify):

3. Generally, how appropriate have notices distributed by the Research Administration Office been in relation to your areas of interest?

0	1	2	3	4	5	6	7	8	9	10
Not at all										Very
Appropriate										Appropriate

4. Generally, how timely have such notices been?

0	1	2	3	4	5	6	7	8	9	10
Too late										Provided
to submit										ample time
application										enough

5. Please list your suggestions for improvement of information dissemination services:

FOR THE MONTH OF _____

INSTITUTION _____

NAME OF RESPONDENT _____

TITLE OF RESPONDENT _____

PHONE NUMBER _____

Note: Copies of worksheets to be submitted quarterly - December 31, March 31, June 30, September 30

NO. OF ANNOUNCEMENTS READ	WEEK 1		WEEK 2		WEEK 3		WEEK 4		WEEK 5		TOTALS	
	CODED	UNCODED										
NO. OF INDIVIDUAL ANNOUNCEMENTS FORWARDED												
NO. OF PERSONS SENT ANNOUNCEMENTS												

PERCEPTION OF COMPARATIVE EASE OF HANDLING CODED VS. UNCODED ANNOUNCEMENTS:

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
CODED EASIER	_____	_____	_____	_____	_____
NO DIFFERENCE	_____	_____	_____	_____	_____
UNCODED EASIER	_____	_____	_____	_____	_____

Please list on the back any terms you feel should be added, deleted, or substituted.

General Comment:

FOR THE MONTH OF _____

INSTITUTION _____

NAME OF RESPONDENT _____

TITLE OF RESPONDENT _____

PHONE NUMBER _____

Note: Copies of worksheets to be submitted quarterly - December 31, March 31, June 30, September 30

	WEEK 1		WEEK 2		WEEK 3		WEEK 4		WEEK 5		TOTALS	
	CODED	UNCODED										
NO. OF ANNOUNCEMENTS READ												
NO. OF INDIVIDUAL ANNOUNCEMENTS FORWARDED												
NO. OF PERSONS SENT ANNOUNCEMENTS												

PERCEPTION OF COMPARATIVE EASE OF HANDLING CODED VS. UNCODED ANNOUNCEMENTS:

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
CODED EASIER	_____	_____	_____	_____	_____
NO DIFFERENCE	_____	_____	_____	_____	_____
UNCODED EASIER	_____	_____	_____	_____	_____

Please list on the back any terms you feel should be added, deleted, or substituted.

General Comment: